SONY.

DIGITAL AUDIO RECORDER

PCM-3402

MAINTENANCE MANUAL 2nd Edition (Revised 5) Serial No. 10501 and Higher

SONY.

DIGITAL AUDIO RECORDER

PCM-3402

SUPPLEMENT-5

Please file this supplement with your PCM-3402 Maintenance Manual.

1st Edition (Part No. 4-920-647-01)

1st Edition (Revised 1) (Part No. 4-920-647-02)

2nd Edition (Part No. 4-920-647-11)

2nd Edition (Revised 1) (Part No. 4-920-647-12)

2nd Edition (Revised 2) (Part No. 4-920-647-13)

2nd Edition (Revised 3) (Part No. 4-920-647-14)

2nd Edition (Revised 4) (Part No. 4-920-647-15)

2nd Edition (Revised 5) (Part No. 4-920-647-16)



Monostable-multivibrator IC was changed.

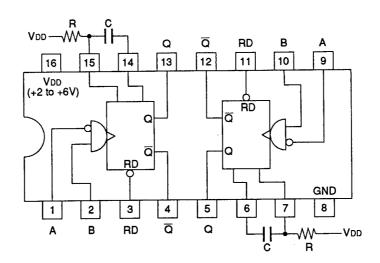
Former and new ICs differ in the pulse width.

Therefore, when IC is replaced, the resistor has to be changed to correct the pulse width.

Former IC

N	е	W	К	J

P/N	Name	Pulse width		P/N	Name	Pulse width
8-759-202-86	TC74HC123P	CRx0.46	_	8-759-239-47	TC74HC123AP	CRx1.0
8-759-203-08	TC74HC221P	CRx0.7		8-759-239-59	TC74HC221AP	CRx1.0



(Former)

(New)

CPU-34 BOARD

ICC7 8-759-202-86 TC74HC123P
R15 1-249-437-11 RES, CARBON 47 K
R28 1-249-433-11 RES, CARBON 22 K
R29 1-249-433-11 RES, CARBON 22 K
R20 1-249-437-11 RES, CARBON 47 K
R21 1-249-437-11 RES, CARBON 47 K
R22 1-249-437-11 RES, CARBON 47 K
R23 1-249-437-11 RES, CARBON 47 K
R24 1-249-437-11 RES, CARBON 47 K
R25 1-249-437-11 RES, CARBON 47 K
R26 1-249-433-11 RES, CARBON 22 K
R27 1-249-437-11 RES, CARBON 22 K
R28 1-249-437-11 RES, CARBON 47 K
R29 1-249-433-11 RES, CARBON 22 K
R29 1-249-437-11 RES, CARBON 22 K
R20 1-249-433-11 RES, CARBON 22 K
R20 1-249-

CTL-1 BOARD

ICA10 8-759-202-86 TC74HC123P

──➤ 8-759-239-47 TC74HC123AP

DIO-2 BOARD

IF-151 BOARD

ICJ6 8-759-202-86 TC74HC123P → 8-759-239-47 TC74HC123AP

IF-153 BOARD

ICC11 8-759-202-86 TC74HC123P

→ 8-759-239-47 TC74HC123AP

ICD11 8-759-202-86 TC74HC123P

→ 8-759-239-47 TC74HC123AP

MCK-1 BOARD

ICB10 8-759-202-86 TC74HC123P → 8-759-239-47 TC74HC123AP

ICD3 8-759-202-86 TC74HC123P → 8-759-239-47 TC74HC123AP

C15 1-108-794-11 CAP, FILM 0.0015 50 V → 1-130-470-00 CAP, FILM 820 PF 50 V

ICF3 8-759-202-86 TC74HC123P → 8-759-239-47 TC74HC123AP

C18 1-102-116-00 CAP, CERAMIC 680 PF 50 V → 1-102-113-00 CAP, CERAMIC 390 PF 50 V

ICG3 8-759-202-86 TC74HC123P → 8-759-239-47 TC74HC123AP

C16 1-101-880-00 CAP, CERAMIC 47 PF 50 V → 1-102-961-00 CAP, CERAMIC 27 PF 50 V

(Former) (New) MDC-1 BOARD

ICN2 8-759-202-86 TC74HC123P → 8-759-239-47 TC74HC123AP

→ 8-759-239-47 TC74HC123AP

ICN3 8-759-202-86 TC74HC123P → 8-759-239-47 TC74HC123AP

SEP-1 BOARD

ICN1 8-759-202-86 TC74HC123P

ICN1 R5 R12	1-247-883-00	TC74HC123P RES, CARBON RES, CARBON	150 K	1/4 W		1-249-439-11	RES, CARBON	68 K	
ICN2 R6 R7	1-247-883-00	TC74HC123P RES, CARBON RES, CARBON	150 K	1/4 W	→	1-249-439-11	RES, CARBON		
ICN3 R8 R9	1-247-883-00	TC74HC123P RES, CARBON RES, CARBON	150 K	1/4 W	\rightarrow	1-249-439-11	RES, CARBON		
	1-247-883-00	TC74HC123P RES, CARBON RES, CARBON	150 K	1/4 W	\rightarrow	1-249-439-11	RES, CARBON		

TPC-1 BOARD

ICB3 8-759-202-86 TC74CH123P → 8-759-239-47 TC74HC123AP

SONY

DIGITAL AUDIO RECORDER

PCM-3402



DICITAL **EX**

MAINTENANCE MANUAL 2nd Edition (Revised 5) Serial No. 10501 and Higher

WARNING

For the customers in the USA

This equipment generates, uses, and can radiate radio frequency energy and if not installed and used in accordance with the instructions manual, may cause interference to radio communications. It has been tested and found to comply with the limits for a Class A computing device pursuant to Subpart J of Part 15 of FCC Rules, which are designed to provide reasonable protection against such interference when operated in a commercial environment. Operation of this equipment in a residential area is likely to cause interference in which case the user at his own expense will be required to take whatever measures may be required to correct the interference.

Important—To insure that the complete system (including this peripheral) is capable of complying with the FCC requirements, it is recommended that the user make sure that the individual equipment of the complete system has a label with one of the following statements.

"This equipment has been tested with a Class A Computing Device and has been found to comply with Part 15 of FCC rules."

-or-

"This equipment complies with the requirements in Part 15 of FCC rules for a Class A Computing Device."

-or equivalent.

The shielded interface cable recommended in this manual must be used with this equipment in order to comply with the limits for a computing device pursuant to Subpart J of Part 15 of FCC Rules.

For the customers in Canada

This apparatus complies with the Class A limits for radio noise emissions set out in Radio Interference Regulations.

Pour les utilisateurs au Canada

Cet appareil est conforme aux normes Classe A pour bruits radioélectriques, spécifiés dans le Règlement sur le brouillage radioélectrique.

Changing the voltage selector may require the use of a different line cord or attachment plug, or both.

To reduce the risk of fire or electric shock, refer servicing to qualified service personnel.

SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

Check the metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 3.5 mA. Leakage current can be measured by any one of three methods.

- A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
- A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
- 3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 5.25V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 20 V AC range are suitable. (See Fig. A)

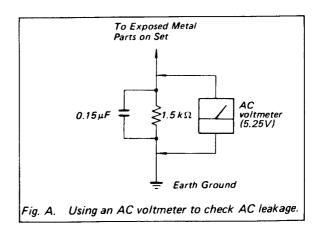


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SE-54 Board -

TPC-1 Board -

VR-56 Board -

B.

BLOCK DIAGRAMS

Α.

CIRCUIT BOARD DIAGRAMS

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SECTION 1 SERVICE INFORMATION

1-1. GENERAL PRECAUTIONS

1-1-1. Removing and Connecting Boards and Connectors

Always switch off the power for the PCM3402 before removing or installing any boards or connectors.

Installing or removing boards or connectors with the power on may destroy electrical components.

1-1-2. Head Cleaning

Always clean the D/REC head and the D/PB head before adjusting the electromagnetic conversion system (the REC-1 board, the DET-4 board, and the PA-57 board). If you make the adjustments with the heads dirty, you can adjust to incorrect values or may find it impossible to obtain good results.

Items needed for cleaning the heads

- . Cleaning sheet (leather): Part No. 2-034-697-00
- . Ethyl alcohol

Cleaning method

When cleaning the head always use a cleaning piece which has been slightly damped by the ethyl alcohol and has been allowed to dry for several seconds. Clean the head gently by moving the cleaning piece horizontally.

NOTE: Do not move the cleaning piece vertically along the head. Doing so can damage the head.

1-1-3. Tapes for Inspection and Adjustment

The following tapes are necessary for inspecting and adjusting the PCM-3402:

- (1) Alignment Tape AR3402-1 (Sony Part No. 8-960-080-51) For adjusting the head azimuth, head height, head contact (digital only), AUX track level, digital track equalizer, error rate, Servo Gain, etc. (See the table below.)
- (2) Standard Blank Tape for Recording
 ClC-DAQ
 (Sony Part No. 8-873-005-24)
 For adjusting the REC-1, PA-57 and
 DET-4 boards

In addition to these reference tapes, a normal blank tape is necessary for the following adjustments.

- (3) Adjusting the tape path system (tension arm, guide rollers, tape shifter, tape tension, etc.)
- (4) Verifying the correction capacity, Punch IN/OUT, etc.

Note: The tape used for (3) may have its edges and surface damaged during the adjustment, so it is best to keep a separate tape just for adjusting the tape-path system.

The tape used for (4) must be brand-new or in similar condition.

Contents of the PCM-3402 Alignment Tape (The contents subject to change without notice.)

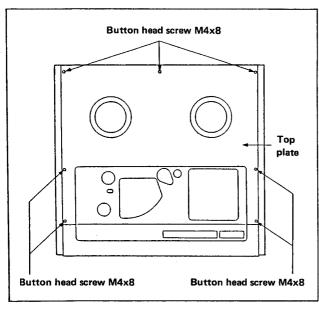
LOCATE TIME REC. SIGNAL	DESCRIPTION
[Fs=481	kHz & Tape Speed=7.5 IPS: REF. SPEED]
0:00	
BLANK (3 min.)	****
3:00	
CTL SIG. (4 min.)	REF. TAPE SPEED 0%
7:00	(Tape Speed=15 IPS)
CTL SIG. (4 min.)	ALIGNMENT SPEED+0.2%
CTL SIG. (4 min.)	ALIGNMENT SPEED-0.2%
15:00	Individual Si Bab 0.2/0
BLANK (30 sec.)	****
15:30	
8 kHz (5 min.)	D-PB AZIMUTH
20:30	
96 kHz (5 min.)	D-PB HEIGHT
25:30	
125 Hz (5 min.)	A-R/P AZIMUTH
30:30	& HEIGHT
8 kHz (5 min.) 35:30	D-REC AZIMUTH
96 kHz (8 min.)	D-REC HEIGHT
43:30	& D-PB UNIFORMITY
BLANK (30 sec.)	****
44:00	
1 kHz+4 dBm (2 min.)	AUX TRACK REF. LEVEL
46:00	
1 kHz+4 dBm (4 min.)	CTL & DATA TRACK PRE ADJ.
50:00	
1 kHz+4 dBm (6 min.)	CRC BLOCK ERR. CHECK
56:00	

1-2. EXTERNAL CASE REMOVAL

1-2-1. Top Plate and Ornamental Panel

Remove the seven 4x8 button head screws, then pull the top plate up and away as is. (See the figure below.)

Remove the lug of the ground lead.



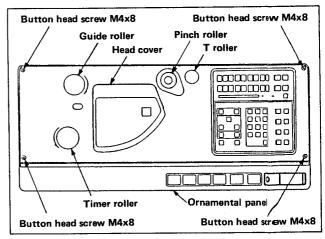
Top plate removal

Remove the four 4x8 button head screws, then remove each cap on the timer roller, guide roller, pinch roller and T roller. Pull the four rollers up and away. (See the figure below.)

Remove the lug of the ground lead.

Holding the head cover, pull up to remove the ornamental panel.

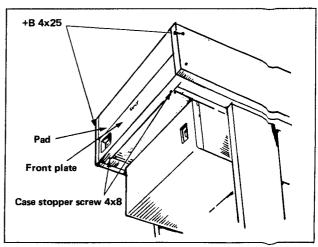
Note: The ornamental panel can be removed even if the rollers are not removed, but we recommend to remove the ornamental panel after removing the rollers not to damage the rollers.



Ornamental panel removal

1-2-2. Pad and Front Plate

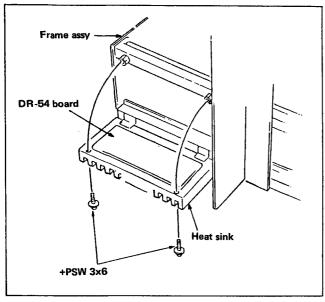
Remove the two +B4x25 screws and the two 4x8 screws. (See the figure below.) The pad and the front plate are a single unit, so this unit can be removed by pulling it forward.



Pad and front plate removal

1-2-3. DR-54 Board (Motor Drive) Removal

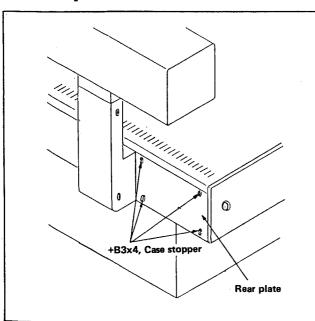
Remove the two +PSW3x6 screws and open the heat sink with DR-54 board.



DR-54 board removal

1-2-4. Rear Plate (For IF-151 board) Removal

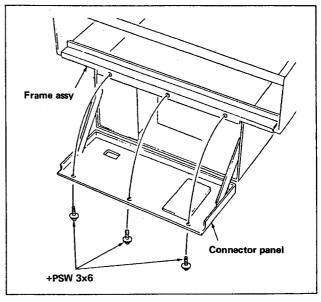
Remove the four +B3x4 screws to take off the rear plate.



Rear plate removal

1-2-5. Connector Panel Removal

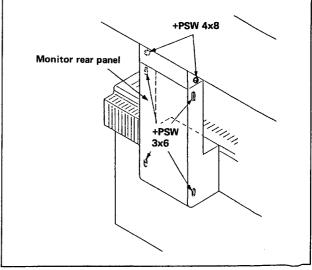
Remove the three +PSW3x6 screws, and open the connector panel.



Connector panel removal

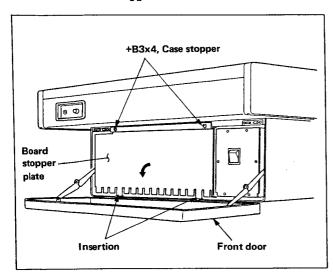
1-2-6. Monitor Rear Panel (For IF-153 board) Removal

- Remove the top plate and then remove the lug of the ground lead that comes from the monitor rear panel.
- 2) Remove the four +PSW3x6 screws, and loosen the two +PSW4x8 screws fixing the monitor box.
- 3) Pull the bottom of the monitor rear panel and remove it.

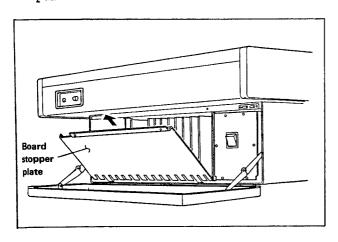


Monitor rear plate removal

1-2-7. Board Stopper Plate Removal

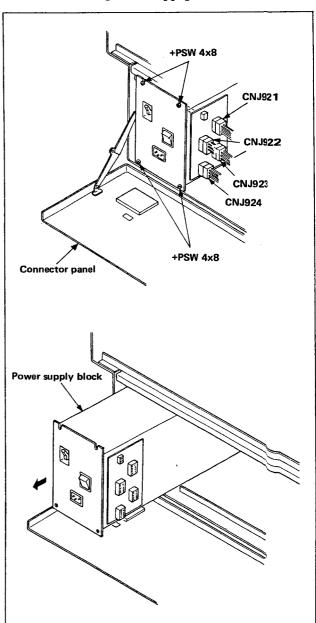


- Open the front door and remove the two +B3x4 screws securing the board stopper plate.
- 2) Tilt the board stopper plate forward and pull it in the direction of the arrow.



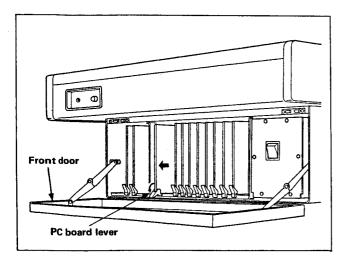
1-3. POWER SUPPLY BLOCK REMOVAL

- 1) Open the connector panel.
 (See Section 1-2-5.)
- 2) Remove the connectors. (CNJ921,922,923 and 924)
- 3) Remove the four +PSW4x8 screws.
- 4) Remove the power supply block.

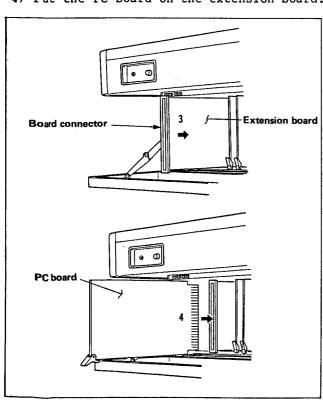


1-4. USAGE OF EXTENSION BOARD FOR CHECK AND ADJUSTMENTS

- Open the front door and remove the board stopper plate. (See Section 1-2-7.)
- 2) Press the PC board lever down and pull the board forward.



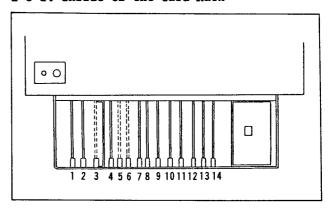
- After removing the board, plug in the extension board.
- 4) Put the PC board on the extension board.



NOTE: When removing or installing the board, be sure to switch off the power.

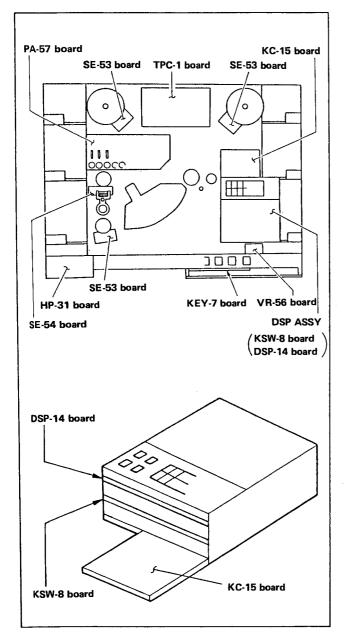
1-5. BOARDS LOCATION

1-5-1. Inside of the Card Rack

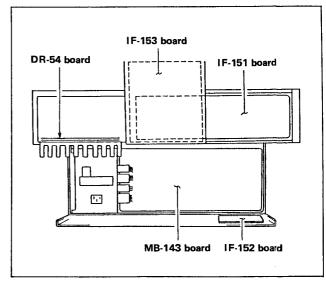


- 1 ARP BOARD
- 2 DAD BOARD
- 3 DAC BOARD (OPTION) DABK-3400
- 4 DIO BOARD
- 5 AUX1 BOARD (Reserved)
- 6 AUX2 BOARD (Reserved)
- 7 MCK BOARD
- 8 CTL BOARD
- 9 EDT1 BOARD
- 10 EDT2 BOARD
- 11 MDC BOARD
- 12 MDM BOARD
- 13 SEP BOARD
- 14 REC BOARD

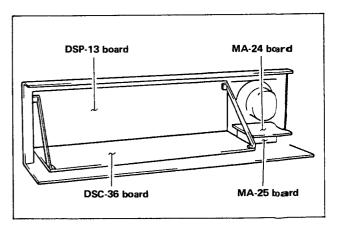
1-5-2. Top View



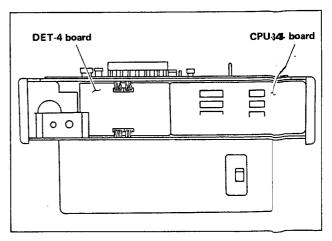
1-5-3. Rear View



1-5-4. Inside of Monitor Box



1-5-5. Front View



1-6. SERVICE TOOLS LIST

Ref. No.	Name	Part No.	Remarks
J1	REC current adjustment filter	J-6222-020-A	For REC current adjustment
J2	Test pattern generator jig	J-6106-000-A	For digital circuit check
J 3	Analog extension cable	J-6101-260-A	For analog head adjustment
J4	Digital monitor head jig	J-6105-730-A	For SYNC REC head recording current adjustment
J5	Function key removing spanner (L)	J-6105-880-A	For installing and removing function keys
J6	Eccentric screwdriver	J-6105-900-A	For head spacing adjustment
J7	Function key removing spanner (S)	J-6105-920-A	For installing and removing function key switches
J8	Roller guide adjustment jig	J-6105-930-A	
J9	CRC error meter	J-6220-210-A	
-	PCM-3402 alignment tape AR3402-1	8-960-080-51	For adjusting the head azimuth, head height, head contact (digital only), AUX track level, digital track equalizer, error rate, servo gain, etc.
_	Standard blank tape for recording	8-873-001-88 8-873-005-24 8-873-002-91	C1C-DAQ (with data)
J10	Tentelometer	J-6041-680-A	For tape tension adjustment
Jll	Torque screwdriver	J-6103-860-A	+4mm
J12	Precision screwdriver	7-721-051-10	Screwdriver set Blade size: 0.8mm(No.1),1.4mm(No.2) 2.0mm(No.3),2.4mm(No.4) 2.9mm(No.5),3.8mm(No.6)
J13	L-shaped hexagonal wrench	7-700-736-00	Wrench set Socket size: 1.27mm,1.4mm,1.5mm, 1.58mm,2.0mm,2.5mm, 3.0mm,4.0mm,5.0mm, 6.0mm,8.0mm,10.0mm
		7-700-736-06	0.89mm

Figures corresponding to the above reference numbers are shown on the following page.

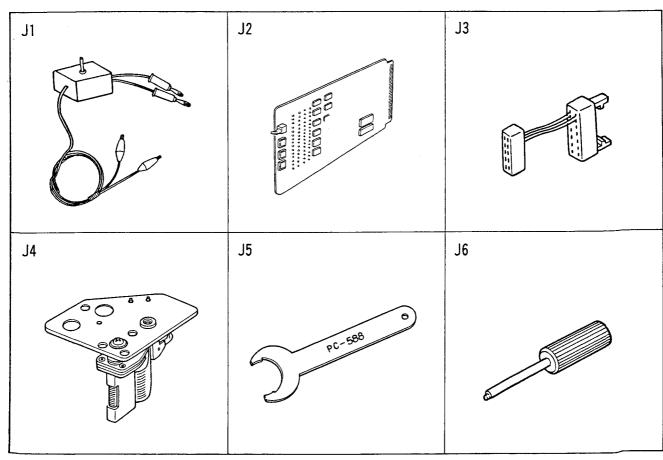
Ref.	Name	Part No.	Remarks
J14	Alignment tool	J-6026-240-A	For front-end adjustment
J15	Gauge 1kg Gauge 4kg	7-732-051-02 9-911-043-01	Tension gauge Tension gauge
J16	Torque measurement drum	9-911-041-01	
J17	Head eraser		MODEL QM 211 NORTRONICS INC. (USA)
J18	Head zenith block	J-6105-960-A	For head zenith adjustment
J19	Extension Board	J-6222-200-A	
-	Cleaning sheet (leather)	2-034-697-00	
-	SONY grease	7-662-010-04	SGL-505
_	Oil	7-661-018-18	Mitsubishi Diamond Oil Hydro fluid NT-68

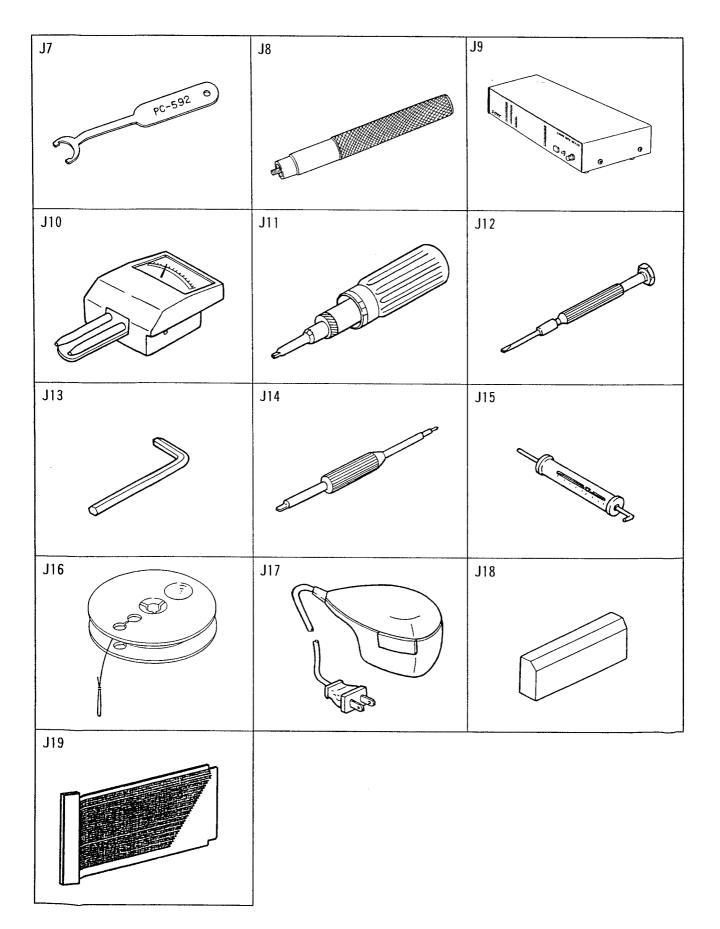
O: Commercially available in certain areas.

(not available from the Sony Repair Parts Center.)

Figures corresponding to the above reference numbers are shown on the following page.

SERVICE TOOLS FIGURES





SECTION 2 PERIODIC INSPECTION AND MAINTENANCE

2-1. PURPOSE OF PERIODIC INSPECTIONS

The purpose of the periodic inspections described in this section is to prevent malfunctions and breakdowns resulting from wear and material fatigue, which advance in proportion to frequency and accumulated time of use, in the PCM-3402's mechanical and drive systems.

In systems like the PCM-3402 that include digital processing systems, and especially those protected by error correction codes, minute defects in the system do not become readily apparent, and their detection is consequently often delayed (see the Figure below.) The periodic inspections recommended in this section are designed to eliminate this vulnerability in the PCM-3402 by aggressively discovering and repairing potential defects before they occur.

The basic purpose of performing these periodic inspections and maintenance procedures is to maintain the electrical and mechanical specifications listed in the PCM-3402's operation manual.

2-2. DAILY MAINTENANCE

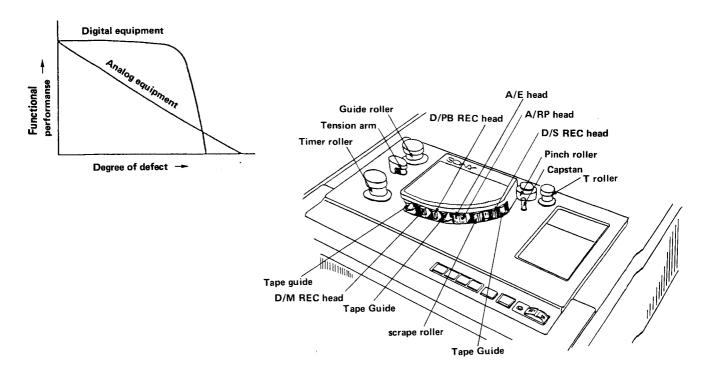
Clean and degauss the PCM-3402 every day to maintain its performance.

2-2-1. Cleaning

Clean the areas indicated with arrows in the figure below with a cleaning piece slightly damped by ethyl alcohol.

- . If there is stubborn dirt on the tape guides in the guide roller and head block, clean with alcohol then wipe off with a clean dry cloth.
- . Wipe each of the heads in the direction that the tape travels in with a cotton swab dipped in alcohol, then wipe it lightly with a dry cotton swab.

Warning: The digital PB head is like the teeth of a comb, so be particularly careful with it. Never wipe it in the direction perpendicular to the direction that the tape travels in.



HEAD AND ROLLERS POSITION

- . Clean the tape shifter with a cotton swab dipped in alcohol.
- . After wiping the capstan and the pinch roller well with a cleaning piece damped by alcohol, wipe them with a soft, dry cloth.

Warning: When cleaning the rollers and guides, do not apply cleaning liquid directly to the roller or apply too much cleaning fluid to cloths or cotton swabs. Just let the cleaning fluid seep into the cleaning cloth or cotton swab.

Daily cleaning prevents the buildup of magnetic powder from the tapes.

2-2-2. Head Degaussing

Bring the degaussing surface of the degausser as close to the head as possible, then switch on the power of the degausser.

Slowly draw the degausser away from the head, then when it is a good distance away, switch off the power. Degauss all the heads and tape guides.

Warning: When degaussing, always switch off the power of the PCM-3402. Do not touch a head directly with the degausser.

2-3. METHODOLOGY OF PERIODIC INSPECTIONS AND MAINTENANCE PROCEDURES

In order to achieve the objectives stated in Section 2-1, the periodic inspections and maintenance procedures entail the following: replacing worn parts, cleaning components of the mechanical systems, lubricating, and conducting accompanying inspections and adjustments of the mechanical and electrical systems. These procedures are to be conducted at regular intervals according to the reading of the Timer (Hours meter) located on the DR-54 board of PCM-3402. The intervals for each inspection and maintenance procedure and part replacement are given in the table on the next page.

Note that the part-replacement intervals given in the table have been established on the basis of part life as estimated from actual performance. Sony therefore reserves the right to revise these intervals as it sees fit according to newly obtained partlife data.

PCM-3402 Periodic Inspection and Maintenance Schedule (Guidelines)

Conduct periodic inspections and maintenance procedures (including part replacement) according to the following schedule.

Inspection and maintenance work should be carried out first after 3,000H. After the first 12,000H inspection and maintenance, repeat the schedule every 3,000 hours from the 3,000H inspection and maintenance program.

O: Cleaning or ♦: Check and ☆: Part replacement H=hours lubrication adjustment

lubrication adjustment					
Inspection and maintenance item	Q'ty	3,000н	6,000н	9,000Н	12,000Н
1. Tape transport system 1) Tape guide Gl tape-travel check 2) Tape guide G2 tape-travel check 3) Tape guide G3 Tape-travel check 4) Scrape filter (A-7810-295-A) 5) Shifter arm tape-travel check Shifter arm (1) assy (X-4920-508-1) Shifter arm (2) assy (X-4920-509-1)	l l (each)	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	♦ ♦ ♦ ♦	♦ ♦ ♦ ♦ ♦ ★	♦ ♦ ♦ ♦
2. Timer roller section 1) Timer roller assy (X-4920-510-4) 2) Abnormal noise from rotating parts 3) Timer roller height	1	♦♦♦	☆		☆
3. Guide roller section 1) Guide roller (4-920-613-04) 2) Ball bearing (4-888-483-01) 3) T roller (4-920-522-03) 4) Abnormal noise from rotating parts 5) Tape travel	1 2 1	♦	***	*	***
4. Tension arm section 1) Tension arm assy	1	♦	♦	☆	♦
5. Pinch roller section *1) Pinch roller puck assy (X-3711-508-1) 2) Pinch pressure	1	☆	☆	☆ ◇	☆
6. Reel table section 1) Reel motor replacement 2) Brake band assy 3) Brake mechanism 4) Brake torque 5) Reel table height 6) Abnormal noise from rotating parts	2 2	**	***	**	***

^{*}Replace every 3,000 hours or once a year.

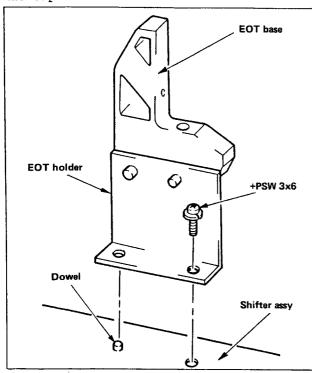
Inspection and maintenance item	Q'ty	3,000Н	6,000Н	9,000н	12,000Н
7. Capstan motor section 1) Capstan motor assy 2) Abnormal noise from rotating parts	1	\$	☆ ◇	\$	*
8. Head block unit (HBU) 1) HBU assy (RKA-3402E) 2) Each adjustment of HBU (1) D/M REC head azimuth (2) D/PB head azimuth (3) D/S REC head azimuth (4) A/E RP head azimuth (5) D/M REC head azimuth (6) D/PB head-to-tape contact (7) D/S REC head-to-tape contact (8) A/E RP head-to-tape contact (9) Head spacing between D/M REC and D/PB (10) Head spacing between D/PB and D/S REC (11) D/M REC head height (12) D/PB head height (13) D/S REC head height (14) A/E RP head height (15) D/M REC head zenith (16) D/PB head zenith (17) D/S REC head zenith (17) D/S REC head zenith (18) A/E RP head zenith	1	♦		☆ ◇	\$
9. System control block 1) FF REW speed 2) SLOW WIND speed 3) CTL lock 4) Capstan wow 5) Tension arm detection position 6) PLAY tension		***	***	♦ ♦ ♦	\$\$
7) Shifter plunger position adjustment and replacement (1-454-448-11) 8) Pinch roller plunger function	1	→	♦	☆ ☆	♦
check and replacement (1-454-449-12) (1-454-450-11) 9) Fan motor (1-541-409-31)	(each)	♦	♦	☆	\$

Inspection and maintenance item	Q'ty	3,000H	6,000н	9,000н	12,000Н
10. Electrical system 1) Secondary side voltage check 2) Analog, TC system 3) Electromagnetic conversion system (REC CURRENT REC CURRENT OFFSET PB EQUALIZER		♦	♦	♦ ♦	*
11. Electrical characteristics 1)Level 2)Frequency response 3)Distortion 4)S/N		**	♦	***	***
12. Function check		♦	♦	♦	♦

SECTION 3 MECHANICAL ADJUSTMENTS AND REPLACEMENT

- 3-1. ADJUSTING THE TAPE SHUTOFF AND SHUT-TLE MECHANISM
- 3-1-1. Adjusting the Position of the Photointerrupter

Line up the dowel on the shifter assembly with the slot on the EOT holder and use a +PSW3x6 screw to install the sensor as far to the back as it will go. Since this sensor combines the light emitter diode and the photo-receiver in a single unit, there is no need to adjust the light shaft. Install the sensor pushed all the way to the back so that the sensor does not touch the tape.



3-1-2. Replacing the Shuttle Control and Adjusting Its Position

Measuring equipment: Voltmeter
Multimeter

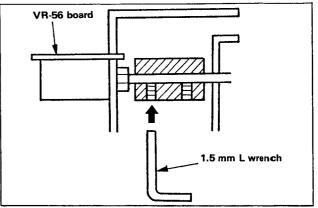
Tools: 1.5mm hex wrench
4mm Phillips screwdriver

Replacement procedure

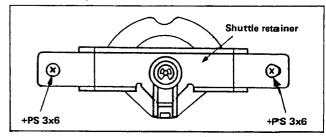
- Remove the front plate and pad. (See Section 1-2-2.)
- Remove the top plate and the ornamental panel. (See Section 1-2-1.)

- 3. Remove the CPU-34 board.

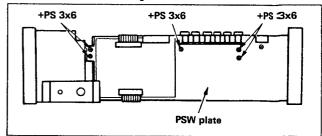
 Remove the CN429 connector on the KEY-7 board.
- Insert the 1.5mm hexagonal wrench as shown below and loosen the fasting screw.



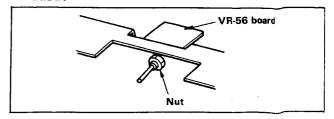
5. Loosen the two screws indicated in the figure below, pull the shuttle retainer forward, and remove it.



Remove the five +PS3x6 screws, and then remove the FSW plate.

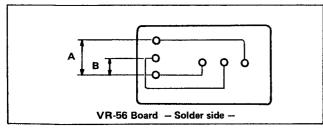


- 7. Remove the connector that is connected to the VR-56 board.
- Loosen the nut indicated in the £igure below and remove the VR-56 board backward.



- Install the new VR-56 board in the FSW plate assembly.
- 10. Use the multimeter to measure Resistance A indicated in the figure below, then adjust the variable resistor so that Resistance B shown in the figure below is half the value of Resistance

Specification: $B = \frac{A}{2}$ ±10ohms



- 11. Install the shuttle retainer and the shuttle dial by reversing the procedure given in Step 5.
- 12. With the screw loosened in Step 4 tightened down, measure Resistance B and make sure that it is still the value measured in Step 9
- 13. If Resistance B has changed, loosen the fastening screw, turn the shuttle dial in the direction indicated by the table that follows to restore the correct value of Resistance B, then tighten the screw down again. Measure Resistance B again to make sure it has retained the correct value even after the screw is tightened down.

Multimeter resistance reading	Tool low	Tool high
Direction to turn the shuttle dial	Right	Left

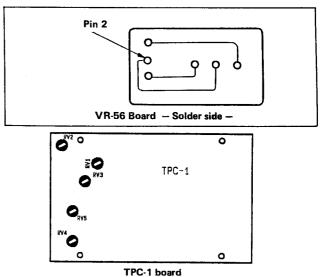
- 14. Plug connector CN432 into the VR-56 board.
- 15. Plug connector CN429 into the KEY-7 board and install the CPU-34 board.

Shuttle midpoint voltage adjustment Procedure:

- 1. Switch on the power.
- Measure the voltage between Pin 2 in the figure below and the chassis ground.

Specification: 0±20mV

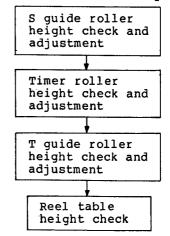
Adjustment: RV2 on the TPC-1 board



3-2. TAPE PATH SYSTEM CHECK AND ADJUSTMENT

3-2-1. Flow of Check and Adjustment Operations

When replacing or adjusting components of the tape path system (HBU, timer roller, tension arm, guide roller, etc.), check and adjust the tape path system according to the procedure given below. When carrying out one of the adjustments in the flow chart below, check all the subsequent items in the procedure and make only those adjustments you find to be necessary.



3-2-2. S Guide Roller Height Check and Adjustment

Tool: 1.5mm hexagonal wrench

S guide roller height check

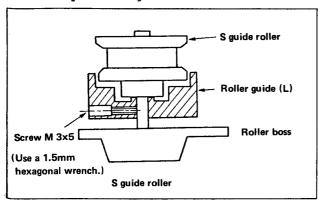
- 1. Thread a blank tape and set the unit in the SLOW REWIND mode.
- 2. Check that the tape is wound up on the center of reel without rubbing the flange at all.

S guide roller height adjustment Tool: Roller guide adjustment jig (J-6105-930-A)

- Remove the cap of the S guide roller and install the roller height adjustment jig. In this case, do not tighten the jig any farther than it can be installed easily.
- 2. Loosen the two screws securing the roller guide.
- 3. Thread a blank tape and set the unit in the SLOW REWIND mode.
- 4. Turn the adjustment jig clockwise or counterclockwise so that the tape is wound up on the center of reel without rubbing the flange at all.

Jig turn direction	Guide roller	
Clockwise	Down	
Counterclockwise	Up	

- 5. Tighten the screws for the guide roller, then check the height again.
- 6. Remove the adjustment jig and install the cap on the guide roller.

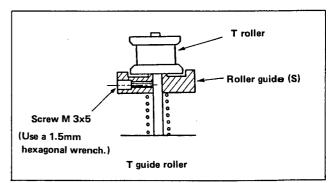


3-2-3. T Guide Roller Height Check and Adjustment

Tool: 1.5mm hexagonal wrench

T guide roller height check

- 1. Thread a blank tape and play it.
- 2. Check that the tape is passing through the center of the roller flange.
- 3. Make sure that the tape is not curling.
- 4. Make sure that there is clearance between the tape and the reel flanges and the tape is wound up smoothly on the center of the reel.



T guide roller height adjustment Tool: Roller guide adjustment jig (J-6105-930-A)

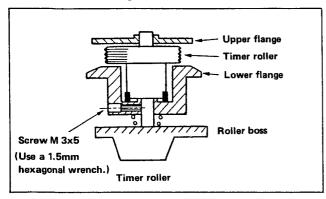
- Remove the cap of the T guide roller and install the roller height adjustment jig. In this case, do not tighten the jig any farther than it can be installed easily.
- Loosen the screw securing the roller quide.
- 3. Thread a blank tape and play it.
- 4. Turn the adjustment jig clockwise or counterclockwise so that the tape runs on the center of the T guide roller reel without rubbing the flange at all.

Jig turn direction	Guide roller	
Clockwise	Down	
Counterclockwise	Up	

- 5. Tighten the screw for the roller guide, then check the height again.
- 6. Remove the adjustment jig and install the cap on the guide roller.

3-2-4. Timer Roller Height Check and Adjustment

Tool: 1.5mm hexagonal wrench



Preliminaries

Always check the height of the timer roller after replacing each head assy or the entire HBU. Always adjust the height of the new timer roller after replacing the timer roller.

Timer roller height check

Mount a tape and play it. Check that there is no gap or curling where the tape meets the upper roller flange and that the tape does not curl about the lower flange of the Gl tape guide on the HBU. If this is the case, there is no need to adjust the height of the timer roller.

Timer roller height adjustment

Tool: Roller guide adjustment jig (J-6105-930-A)

- 1. Remove the top plate and the ornamental panel.
- 2. Remove the cap of the timer roller.
- 3. Install the roller height adjustment jig in place of the cap. In this case, do not tighten the jig any farther than it can be installed easily.
- 4. Loosen the two screws securing the lower flange.

5. Thread a blank tape and play it, and turn the adjustment jig clockwise or counterclockwise to the point at which the tape and the top flange of the roller just begin to contact each other.

Jig turn direction	Timer roller	
Counterclockwise	Up	
Clockwise	Down	

- 6. Turn the jig 45 degrees clockwise from the point in step 5 to lower the roller.
- 7. Once the adjustment is over, tighten the screws for the lower flange.
- 8. Remove the adjustment jig and install the cap on the timer roller.

3-2-5. Reel Table Height Adjustment

- Thread a blank tape and set the unit in the SLOW FF mode.
- 2. Check that the tape is wound up without rubbing the flange of the S-side reel.
- 3. Set the unit in the SLOW REWIND mode.
- 4. Check that the tape is wound up without rubbing the flange of the T-side reel.

The height of the reel base is not adjusted. If the check below shows that the tape is rubbing against the reel flange, adjust the following adjustments.

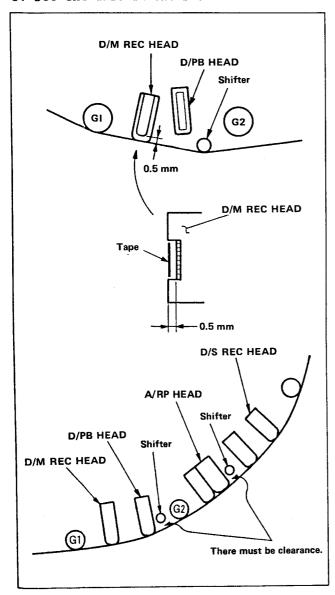
3-2-2. S Guide Roller Height Adjustment 3-2-3. T Guide Roller Height Adjustment

3-2-4. Timer Roller Height Adjustment

3-2-6. Tape Shifter Position Check and Adjustment

Tape shifter Position check

- Thread a blank tape and set the unit in the FF or REW mode.
- 2. Make sure that the tape is 0.5mm apart from the D/M REC head. (See the figure below.)
- 3. Set the unit in the STOP mode.

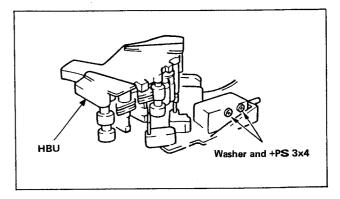


4. Check that there is clearance between the tape and the shifter, as shown in the figure above.

Tape Shifter position adjustment

The clearance between the tape and head during the FF mode is adjusted by adjusting the position of the shifter plunger.

 Loosen the two +PS3x4 screws and washers holding the plunger shown in the figure below.



- Thread a blank tape and set the unit in the SLOW WIND mode.
- 3. Move the plunger to the left or right to a position at which the clearance between the D/M REC head and tape is 0.5mm, then tighten the screw.

Direction the plunger is moved	Clearance between the tape and the D/M REC head	
—————	Widens	
	Narrows	

3-2-7. Final Check of the Tape Path System

After checking that the screws holding the S guide roller, timer roller, T guide roller, and the shifter plunger are tightened, thread a tape and play it. Check that the tape is not curling at HBU Gl, G2 and G3 and that there is no sound from tape rubbing against the roller flanges. Then, set the unit in the REW mode and check that there is a clearance between the tape and each roller plus reel flanges.

3-3. TAPE SHIFTER MECHANISM REPLACEMENT AND ADJUSTMENT

3-3-1. Checking Performance

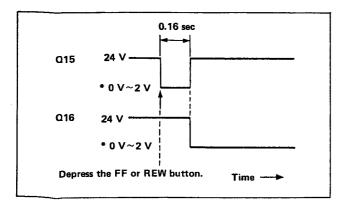
- (1) Check that none of the ceramic part of the shifter has worn away where the tape passes over it. (checked by the eye.)
- (2) Make sure that when a tape is threaded, the shifter does not touch it.
- (3) There must be clearance between the tape and the D/M REC head when the shifter is activated during FF, REW or SLOW WIND mode. (See Section 3-2-6 "Tape shifter position check and adjustment.)
- (4) The shifter must return to its original position when the tape is taken up by FF or REW mode.

3-3-2. Plunger Solenoid Replacement and Adjustment

(1) Replacement period

- When the period listed in the Periodic Inspection and Maintenance Schedule given in Section 2 is up.
- 2. If the plunger solenoid no longer satisfies the performance indicated in 3-3-1. At this time, the voltage at the collector pins of transistors Q15 and Q16 on the TPC-1 board must be as shown in the figure below. (See the Value indicated by * in the figure.)

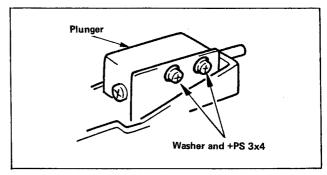
If these voltages are not like the following, repair the TPC-1 board.



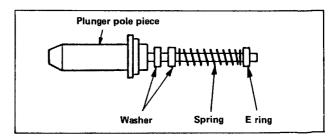
(2) Replacement method

- 1. Pull out the CN409 connector on the TPC-1 board, then cut the cable tie so that the plunger harness can be removed.
- Remove the two +PS3x4 screws and washers shown in the figure below, then lift up the plunger, remove the limiter spring and the shifter link, then remove the plunger.

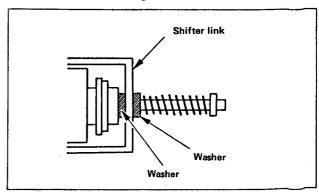
Next pull out the harness.



- Remove the E ring from the top of the plunger pole and remove the two washers and the spring.
- 4 Place the two washers and the spring on the pole of the replaced plunger and secure them with the E ring.



5. Install the plunger by reversing the procedure given in Step 2. Sandwich the shifter link between the two washers as shown in the figure below.

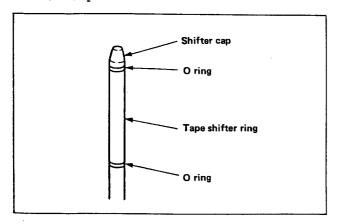


3-3-3. Tape Shifter Replacement

(1) Replacement period Since the shifters used in the PCM-3402 are ceramic, they wear out quite slowly. If they wear out to the point that it is visible to the eye, either rotate the ceramic part of the shifter so that a different part of it touches the tape

(2) How to rotate the section that touches the tape

or replace the tape shifter entirely.



- 1. Turn the shifter cap clockwise to loosen it.
- 2. Turn the shifter ring about 90 degrees so that a part of the ring that is not worn touches the tape.
- 3. Turn the shifter cap counterclockwise to tighten it.
- 4. Apply screw locking solution to the head of the cap.
- (3) Replacing the tape shifter
- Turn the shifter cap clockwise, then remove it.
- 2. Remove the O ring and shifter ring by pulling them up.
- 3. Insert the new O ring and shifter ring, then tighten down the shifter cap.
- **4.** Apply screw locking solution to the head of the cap

3-3-4. Tape Fast-forward Check and Adjustment

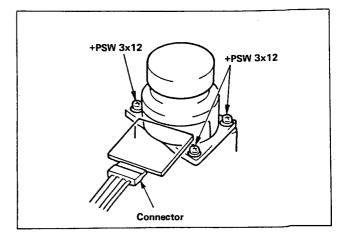
Carry out the final check of the tape path system as explained in Section 3-2-7.

3-4. TIMER ROLLER REPLACEMENT AND ADJUSTMENT

3-4-1. Timer Roller Assembly Replacement and Adjustment

(1) Replacement period Replace the timer roller assembly after the period listed in the Periodic Inspection and Maintenance Schedule given in Section 2.

- (2) Replacement method
- 1. Remove the connector from the SE-53 board.
- Remove the three +PSW3x12 screws securing the timer roller assembly.
- 3. Check that the roller and flange of the replacement timer roller are not damaged. Turn the replacement timer roller by hand and make sure it does not make any abnormal sounds.
- 4. Install the replacement timer roller assembly with the three +PSW3x12 screws.
- 5. Plug in the connector.
- 6. Clean the roller.



(3) Adjustment Adjust the height of the timer roller as explained in Section 3-2-4.

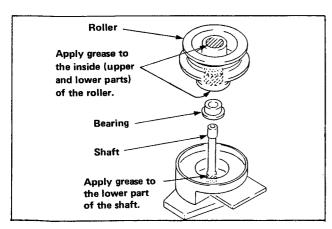
3-4-2. Replacing the Timer Roller Bearing

(1) Replacement period

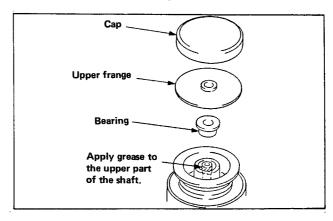
- Replace the timer roller bearing after the period listed in the Periodic Inspection and Maintenance Schedule given in Section 2.
- Replace the timer roller bearing if there are strange noises when the timer roller turns.

(2) Replacement method

- Turn the roller cap assembly counterclockwise and remove it.
- 2. Remove the upper flange, roller and bearing by lifting them up.
- 3. Apply Sony Grease SGL505 to the lower part of the shaft indicated with diagonal lines in the figure and insert the bearing.
- 4. Apply Sony Grease SGL505 to the upper and lower parts of the inside of the roller indicated with diagonal lines in the figure and insert the roller.



5. Apply Sony Grease SGL505 to the upper part of the shaft and insert the replacement bearing.

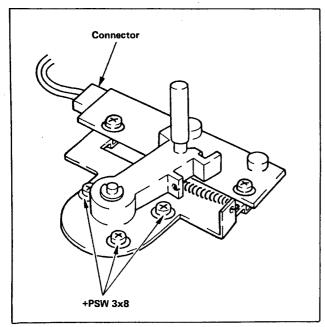


- 6. Mount the upper flange, then turn the roller cap assembly clockwise to install it.
- (3) Adjustment method Adjust the height of the timer roller as explained in Section 3-2-4.

3-5. TENSION ARM REPLACEMENT AND ADJUSTMENT

3-5-1. Tension Arm Assembly Replacement

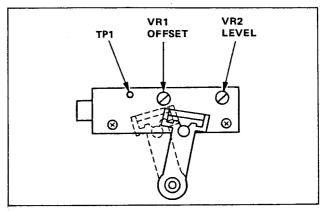
- (1) Replacement period Replace the tension arm assembly after the period listed in the Periodic Inspection and Maintenance Schedule given in Section 2.
- (2) Replacement method
- Remove the connector from the SE-54 board.
- Remove the three +PSW3x8 screws securing the tension arm assembly and remove the tension arm assembly.



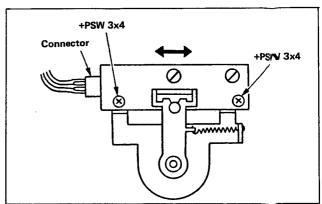
- 3. Check that there are no scratches or cracks in the ceramic section of the tension arm. Also, move the arm to the left and right by hand and make sure that it moves smoothly.
- 4. Install the replacement tension arm assembly with the three +PSW3x8 screws.
- 5. Clean the ceramic part of the tension arm.

3-5-2. Tension Arm Adjustment

- Connect the oscilloscope between ground (the frame will do) and TPl on the SE-54 board.
- Move the tension arm to the left and right and adjust the level with VR2 and the offset with VR1 so that the voltage ranges from -3V to +3V.



- Disconnect the connector, mount a tape, press the PLAY button to put the system in play mode, then press the STOP button.
- 4. Adjust the tension as explained in 3-5-3.
- 5. Plug in the connector, then loosen the two +PSW3x4 screws holding the SE-54 board in place. Slide the SE-54 board to the left and right to the point where the voltage at TPl reads 0V on the oscilloscope, then retighten the screws.

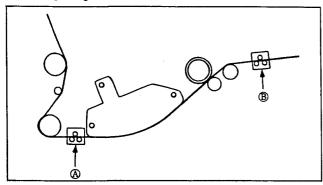


- 6. Repeat the cycle of playing the tape then stopping it two or three times and make sure that the voltage at PPl is within 0.2V of OV.
- 7. Perform steps 2 through 5 several wimes.

3-5-3. Tension Check and Adjustment

Check

- 1. Disconnect the connector from the SE-54 board.
- 2. mount a blank tape and play it.
- 3. Insert the tentelometer at Point (A) in the figure below and make sure that the tension is 90g±20g. Insert the tension meter at Point (B) in the figure below and make sure that the tension is 105g±20g.

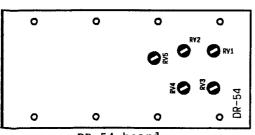


4. Plug in the connector to the SE-54 board, play the tape, and double check the tension at Points (A) and (B).

Adjustment

- 1. Disconnect the connector from the SE-54 board.
- 2. Mount a blank tape and play it.
- 3. Insert the tentelometer at Point (A) in the figure above and adjust VR1 on the Dr-54 board so that the tension is 90a±20a. Insert the tentelometer at Point (B) in the figure above and adjust VR2 on the DR-54 board so that the tension is 105g±20g.

Measurement point	Tension	DR-54 board
A	90g ± 20g	· VR1
В	105g ± 20g	VR2



DR-54 board

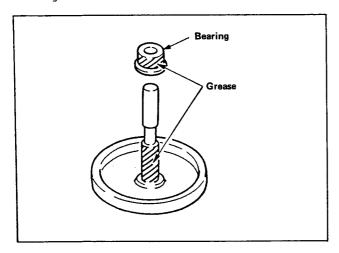
- 3-6. GUIDE ROLLER REPLACEMENT AND ADJUST-MENT
- 3-6-1. Replacing the S Guide Roller Assembly
- (1) Replacement period Replace the S guide roller assembly after the period listed in the Periodic Inspection and Maintenance Schedule given in Section 2.
- (2) Replacing the S guide roller assembly
- 1. Remove the three +PSW3x10 screws securing the S guide roller assembly.
- 2. Check that the roller and flange of the replacement guide roller are damaged. Turn the replacement roller by hand and make sure it does not make any abnormal noises.
- 3. Mount the replacement guide assembly on the chassis and install it with the three +PSW3x10 screws.
- 4. Clean the roller
- (3) Adjustment method

How to adjust the S guide roller Adjust the S guide roller height as explained in 3-2-2 and adjust the reel table height as explained in 3-2-5.

3-6-2. Replacing the T Guide Roller

(1) Replacement period Replace the T guide roller after the listed in the Period ic period Inspection and Maintenance Schedule given in Section 2.

- (2) Replacing the T guide roller
- 1. Remove the T guide roller cap.
- 2. Remove the roller and the bearing.
- 3. Apply Sony Grease SGL505 to the part of the shaft and the replacement roller indicated with diagonal lines in the figure below and insert the bearing.



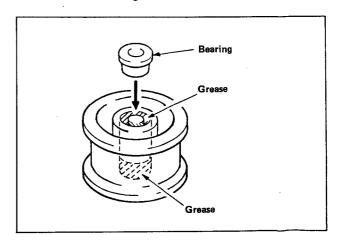
- 4. Insert the replacement roller.
- Apply Sony Grease SGL505 to the part of the shaft and the roller indicated with diagonal lines in the figure and insert the bearing.
- 6. Mount the cap

3-6-3. Replacing the Guide Roller Bearing

(1) Replacement period Replace the guide roller bearing after the period listed in the Periodic Inspection and Maintenance Schedule given in Section 2.

(2) Replacement method

- Turn the guide roller cap by hand and remove it, then remove the guide roller and bearing.
- 2. Apply Sony Grease SGL505 to the part of the shaft and the replacement bearing indicated with diagonal lines in the figure below and insert the bearing.
- 3. Insert the roller.
- 4. Apply Sony Grease SGL505 to the part of the shaft and the roller indicated with diagonal lines in the figure below and insert the replacement bearing.



- 5. Mount the cap by screwing it on by hand.
- Turn the roller by hand and make sure it does not make any abnormal noises.
- 7. Clean the roller
- (3) Adjustment method Check the heights of the S and r guide rollers and adjust them, if necessary. (See section 3-2-2 and 3-2-3.)

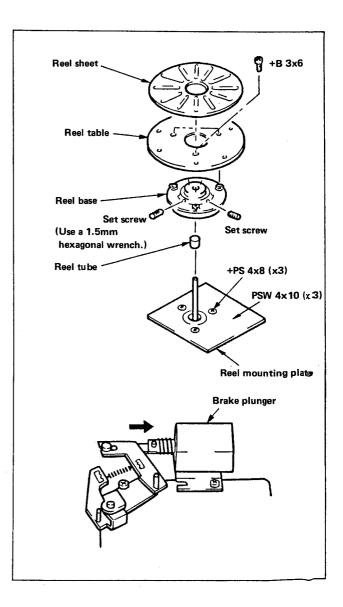
3-7. REEL MOTOR REPLACEMENT AND ADJUSTMENT

Tool: 1.5mm hexagonal wrench

3-7-1. Reel Motor Replacement

- (1) Replacement period
- Replace the reel motor after the period listed in the periodic Inspection and Maintenance Schedule given in Section 2.
- Replace the reel motor if it makes strange noises when it turns.
- (2) Preparations for replacing the reel
- 1. Remove the top plate.
- 2. Open the heat sink on the DR-54 board.
- (3) Replacement method
- Disconnect the CN462 (S side) and CN463 (T side) connectors from the DR-54 board.
- 2. Peel off the reel sheet from the reel table. (The only thing holding the reel sheet to the reel table is the protrusion on the reel sheet.)
- 3. Remove the three +B3x6 screws shown in the figure on the right, then remove the reel table.
- 4. Loosen the screws securing the reel base, then pull the reel base up and away, holding the brake plunger in the direction indicated by arrow in the figure on the right and with the break off.
- 5. While holding the reel motor from below so that it does not fall, loosen the three +PS4x8 screws securing the reel motor, then remove these screws. (See the figure on the right.)
- motor to the front of the machine, pull the reel motor to the front of the machine, pull the reel motor to the bottom of the chassis and remove it from the side of the chassis. (If it is too difficult to remove the reel motor this way, it is also possible to remove the three +PSW4x10 screws and pull the reel mounting plate upwards.

- 7. Turn the shaft of the replacement reel motor by hand to check that it moves smoothly without any strange noise.
- 8. Install the replacement reel motor by reversing the procedure with which the old reel motor was removed. Install the reel tube and the reel base.
- Check the brake torque as explained in Section 3-8.
- 10. Install the reel table and reel sheet.
- 11. Plug in the CN462 (S side) and CN463 (T side) connectors into the DR-54 board.
- 12. Adjust the tension as explained in 3-5-3.



3-7-2. Brake Band Replacement

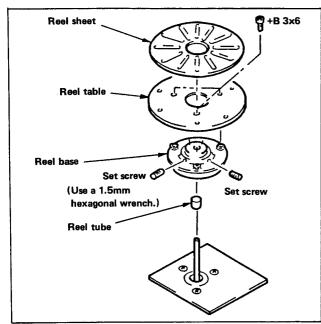
Tool: 1.5mm hexagonal wrench

(1) Replacement period

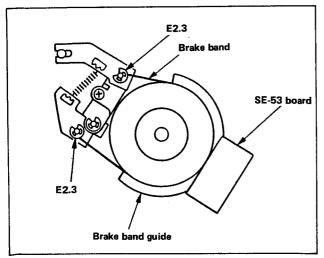
- . Replace the brake band after the period listed in the Periodic Inspection and Maintenance Schedule given in Section 2.
- Replace the brake band if the brake makes a strange noise.

(2) Replacement method

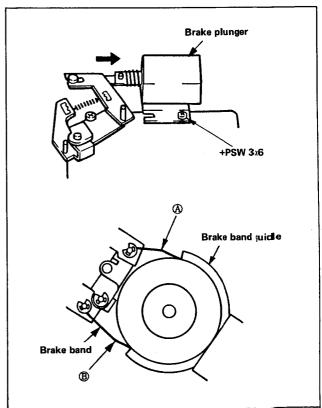
 Remove the reel sheet, the reel table, and the reel base as shown in the figure below.



2. Remove the two E2.3 rings. (See the figure below.)



- 3. Pull the brake band up and away.
- 4. Check that the replacement brake band is straight, not bent and that the surface of the brake band is clean.
- 5. Mount the replacement brake band on the brake link and secure it with the two E2.3 rings.
- 6. While holding the brake plunger in the direction shown by the arrow in the figure below, make sure that the brake band is attached comfortably to the brake band guide and that there are no gaps between the brake band and the brake band guide. Check that the brake band is not bent at points (A) and (B) in the figure below.



- 7. If the brake band is bent at loint (A) or Point (B) or there are gaps between the brake band and the brake band guide, loosen the +PSW3x6 screw securing the brake plunger and adjust the position of the plunger.
- 8. Install the reel base, reel table, and reel sheet.
- 9. Check the brake torque and adjust it as explained in Section 3-8.

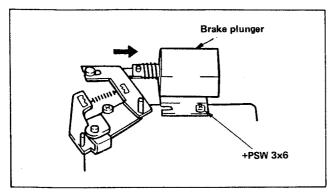
3-7-3. Brake Plunger Replacement

(1) Replacement period

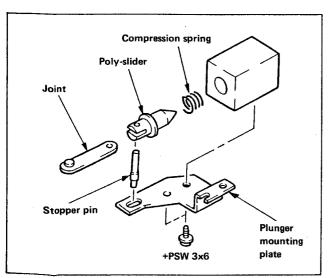
- Replace the brake plunger after the period listed in the Periodic Inspection and Maintenance Schedule given in Section 2.
- Replace the brake plunger if it stops working.

(2) Replacement method

 Remove the +PSW3x6 screw securing the brake plunger, then remove the plunger unit from the brake link and remove the plunger unit.



2. Remove the two +PSW3x6 screws and remove the plunger mounting plate and plunger. At this time, the stopper pin on the plunger pole piece is also removed, so the pole is separated from the main portion of the plunger unit.



- 3. Make sure that the pole piece moves smoothly in and out of the main unit of the replacement plunger.
- 4. Use a multimeter to check that the leads (for the coil) of the replacement plunger are not cut.
- 5. Install the link, stopper pin, washer, and compression coil spring on the replacement plunger and secure the plunger to the plunger mounting plate with the two +PSW3x6 screws.
- 6. Install the plunger and its mounting plate at the position that gives the longest plunger stroke and secure it with the two PSW3x6 screws.
- 7. Mount the link and the joint, then install the plunger unit on the reel assembly with a +PSW3x6 screw.
- 8. Adjust the position of the plunger as explained in Section 3-7-2.
- Adjust the brake torques as explained in Section 3-8.
- 10. Plug in the plunger leads into CN406 (S side) and CN408 (T side) of the TPC-1 board.

3-8. BRAKE TORQUE ADJUSTMENT

Check

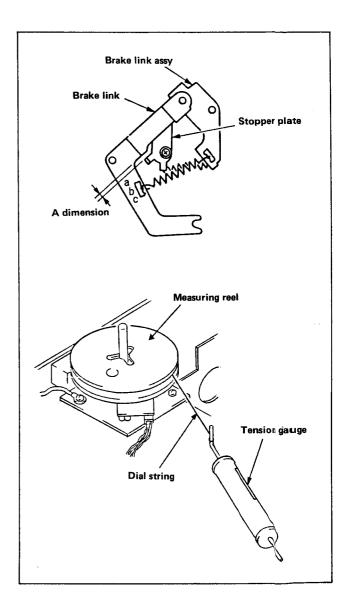
- 1. Mount the drum open torque measuring reel (9-911-041-01) on the reel table (as in the figure below) and pull the other end of the dial string with a tension gauge.

Adjustment

Set up the measuring reel and tension gauge as shown in the figure on the right then proceed with the adjustment.

- If the drive torque is more than 125g, move the spring from Position b to Position a. If the back torque is less than 600g, move the spring from Position b to Position c.
- 2. If the torque still does not meet the specifications, loosen the +PSW3x6 screw and adjust the torque by moving the stopper plate.

600g or less Increase the dimension. 800g or more Decrease the A dimension. (The design value for Dimension A is 0.5- 1.5mm.)



3-9. PINCH ROLLER MECHANISM REPLACEMENT AND ADJUSTMENT

3-9-1. Pinch Roller Pack Replacement

(1) Replacement period

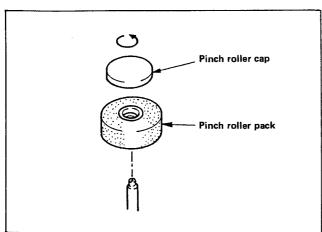
 Replace the pinch roller pack after the period listed in the periodic Inspection and Maintenance Schedule given in Section 2.

Replace the pinch roller pack if any of the following problems occur.

- The pinch roller is damaged or extremely dirty.
- Even though the pinch pressure is normal during playing, the phase meter on the CTL board runs.
- When you touch the pinch roller cap, it makes a rumbling noise similar to that made by worn out bearings.

(2) Replacement method

- Turn the pinch roller cap counterclockwise as shown in the figure below.
- 2. Pull up the pinch roller pack.



- Check that the replacement pinch roller pack is not scratched or dirty.
- 4. Mount the replacement pinch roller pack on the shaft, then install the pinch roller cap.
- 5. Turn the pinch roller pack by hand and Check that it moves smoothly.
- Check the pinch pressure as explained in 3-9-5.

3-9-2. Pinch Preplunger Replacement

(1) Replacement period

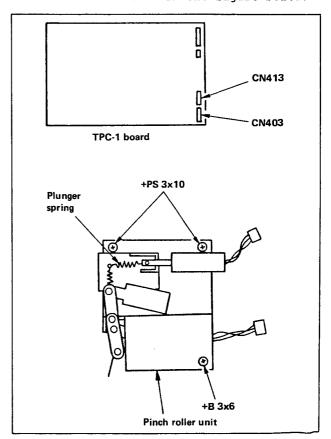
 Replace the pinch preplunger after the period listed in the Periodic Inspection and Maintenance Schedule given in Section
 2.

Replace the pinch preplunger if any of the following problems occurs.

- . After mounting a tape, the plunger does not move when the PLAY button is pressed.
- . After a tape has been completely rewound or fast forwarded, the pinch roller is not retracted.

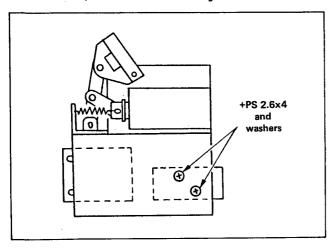
(2) Replacement method

- Remove the CN403 and CN413 connectors from the TPC-1 board.
- 2. Remove the two +PS3x10 screws and the +B3x6 screw shown in the figure below.

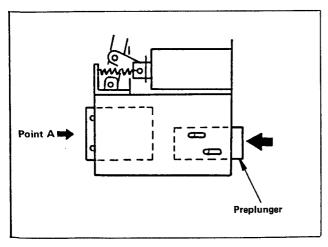


- Remove the pinch roller unit by pulling it up.
- 4. Remove the plunger spring at the plunger pole side.

5. Remove the two +PS2.6x4 screws and washers, shown in the figure below.



- 6. Make sure that the pole of the replacement plunger and the main body of the plunger unit move in and out smoothly.
- 7. Use a multimeter to check that the coil of the replacement plunger is no cut.
- 8. Press the replacement plunger in the direction indicated by the arrow in the figure so that its stroke is as short as possible, then secure it with the two +PS2.6x4 screws and washers.
- 9. Press on Point A with your hand and make sure that the link moves smoothly and that the plunger is returned smoothly.



10. Assemble and adjust the pinch roller mechanism as explained in Section 3-9-4.

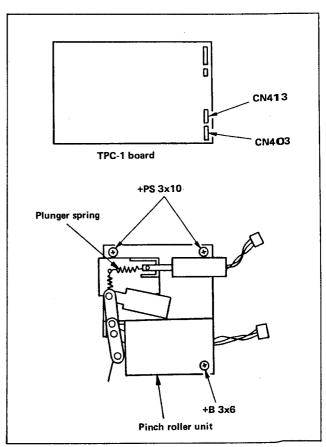
3-9-3. Pinch Plunger Replacement

(1) Replacement period

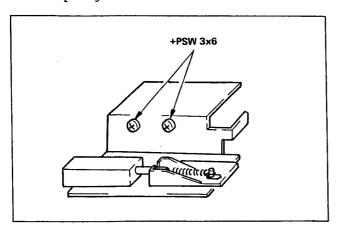
- Replace the pinch plunger after the period listed in the Periodic Inspection and Maintenance Schedule given in Section 2.
 - Replace the pinch plunger if the following problem occurs.
- . When the play button is pressed, the pinch roller does not press against the capstan.

(2) Replacement method

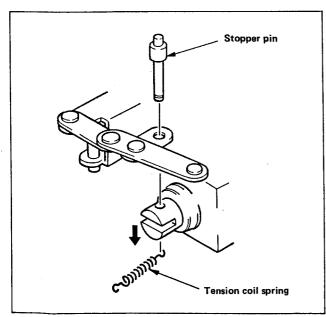
- Remove the CN403 and CN413 connectors from the TPC-1 board.
- 2. Remove the two +PS3x10 screws and the +B3x6 screw shown in the figure below.



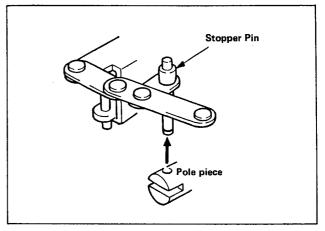
- 3. Remove the pinch roller unit by pulling it up.
- 4. Remove the two +PSW3x6 screws securing the plunger, then pull the main body of the plunger.



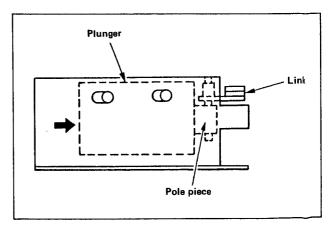
- 5. Remove the tension coil spring attached to the lower part of the stopper pin, as shown in the figure below.
- Pull the pole piece, shown in the figure, down and away.



- 7. Make sure that the pole piece of the replacement plunger and the main body of the plunger unit move in and out smoothly.
- 8. Use a multimeter to check that the coil of the plunger is not cut.
- 9. Insert the replacement pole piece into the stopper pin from below.



- 10. Insert the pole piece into the main body of the plunger, then secure it to the plunger mounting plate with the two +PSW3x6 screws.
- 11. Install the main body of the plunger all the way in the direction of the arrow as shown in the figure below.

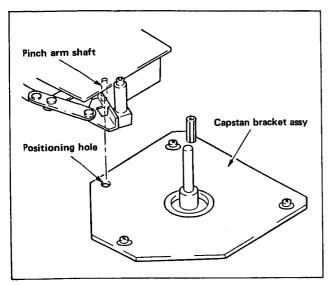


- 12. Hook the tension coil spring on the stopper pin.
- 13. Press the pole piece by hand and check that it moves smoothly and that it is returned when you let go.

3-9-4. Assembling and Adjusting the Pinch Roller Mechanism

(1) Assembly

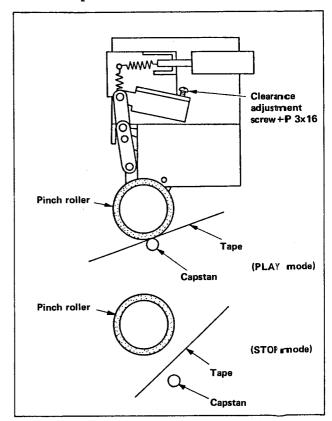
 Drop the protrusion on the pinch arm shaft into the positioning hole on the capstan bracket assy as shown in the figure below.



- Install the pinch roller mechanism with the two +PS3x10 screws and the +B3x6 screw.
- 3. Connect the lead harness of the preplunger to connector CN413 on the TPC-1 board and connect the lead harness of the pinch plunger to connector CN403 on the TPC-1 board.
- 4. Bundle the harness with the wire tie.

(2) Adjustment

- 1. Mount a blank tape and play it.
- 2. Turn the clearance adjustment screw +P3x16 shown in the figure below clockwise to the point where the pinch roller presses the tape lightly against the capstan.
- Return the clearance adjustment screw back 90 degrees from the point where the pinch roller presses the tape against capstan lightly.
- 4. Stop the tape and make sure that it is touching neither the pinch roller nor the capstan.

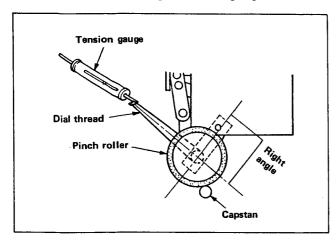


5. If the pinch roller is touching the tape, play the tape, turn the clearance adjustment screw +P3x16 to the point where the pinch roller presses the tape lightly against the capstan, then return the clearance adjustment screw less than 90 degrees.

3-9-5. Checking the Pinch Roller Pressure

Tool: 4kg Tension gauge (9-911-043-01)

- 1. Mount a blank tape and play it.
- Attach the dial thread to the shaft of the pinch roller as shown in the figure below, then pull on the other end of the thread with a 4kg tension gauge.



3. While touching the pinch roller lightly with a finger, pull on the tension gauge and read off the tension at which the roller stops turning. Check whether this tension meets the specification for the pinch roller pressure.

Specification: at least 1.2kg

3-10. CAPSTAN MOTOR REPLACEMENT AND ADJUST-MENT

3-10-1. Capstan Motor Replacement

(1) Replacement period

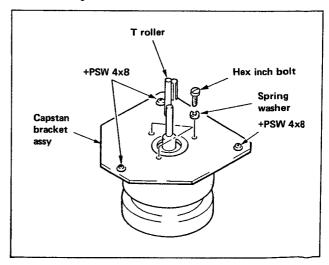
Replace the capstan motor after the period listed in the Periodic Inspection and Maintenance Schedule given in Section 2.

Replace the capstan motor if any of the following problems occur.

- . The capstan turns abnormally.
- . The capstan shaft is bent.

(2) Replacement method

- 1. Disconnect the CN464, CN465, and CN467 connectors on the DR-54 board.
- 2. Remove the pinch roller unit as explained in Section 3-9-3.
- 3. Remove the three +PSW4x8 screws, shown in the figure below.
- 4. Pull the capstan motor unit up and remove it.
- 5. Remove the three hexagonal inch bolts, then remove the capstan motor and the capstan bracket assy, which are shown in the figure below.



- 6. Make sure that there are no scratches or cracks on the shaft of the replacement capstan motor.
- 7. Install the new capstan motor by reversing the procedure given in Steps 1-5 above.

- 8. Assemble and adjust the pinch roller mechanism as explained in Section 3-9-4.
- 9. Check the pinch pressure as explained in 3-9-5.
- 10. Check the tape path and make any necessary adjustment as explained in Section 3-2.
- 11. Check the servo gain and phase of the CTL board and make any necessary adjustments as explained in Section 3-10-2.

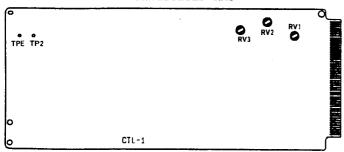
3-10-2. Checking and Adjusting the CTL-1 Board Servo Gain and Phase Applicable Board No.:

1-620-310-12 only

- 1. Pull out the CTL board with an extension board.
- 2. Turn VR3 all the way to the left.
- Connect a wow meter (Meguro MK615 or 616) between TPE and TP2.

Wow meter settings: Carrier frequency
Tape Speed: 10kHz at Low speed
Tape Speed: 20kHz at High speed
L.P.F. 2kHz

UNWEIGHTED RMS



CTL board

VR1: PHASE OFFSET VR2: SERVO GAIN VR3: PHASE GAIN

4. Mount a blank tape and set the unit in REC PLAY mode.

MCK board settings: Fs 48kHz Tape speed: Low

5. Adjust VR2 to obtain the wow meter readings.

CTL board	VR2
WOW Specification	no more than 0.035

The capstan motor does not make any strange noises.

6. Adjust VRl so that the 4th green LED from the bottom on the phase meter of the front of the CTL board lights up.

		- 0
CTL-1 board	VR1	0
		- 0
Phase	4th green LED	0
meter	from the bottom	Lights up
	lights up] 0
		0
		_ '

7. Switch the Tape Speed switch on the MCK board to High and check that the 4th phase meter LED (green) from the bottom lights up. If the 3rd LED lights up, adjust VRl using the procedure in Step 6, only adjust so that the 5th LED from the bottom lights up.

○○Lights up○○○○○

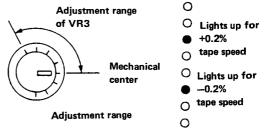
- 8. Check that at this time the wow meter reads no more than 0.035%.
- 9. Check in both of the following modes that the capstan motor makes no strange noises, that the wow is no greater than 0.02%, and that the 4th or 5th LED from the bottom lights up on the phase meter.

Tape speed	Vari	FS
HIGH	+12.5%	48kHz
LOW	-12.5%	44.056kHz

10. Playback a PCM-3402 alignment tape with a tape speed of +0.2% and -0.2% and adjust RV3 so that the following conditions are met.

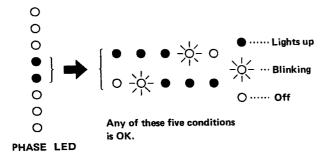
MCK board setting: Tape speed High
Fs 48kHz

Tape Speed	Phase LED			
+0.2%	3rd LED from the top			
	lights up.			
-0.2%	3rd LED from the top			
	lights up.			



If these conditions can not be met within the above adjustment range for VR3, it is ok if the 2nd LED from the top (yellow) and the 2nd LED from the bottom light up (yellow) \cdot

11. Playback a PCM-3402 alignment tape at ±0% and check that of the two LEDs in the middle of the phase meter, either one lights up, both light up, or one lights up and the other blinks.



Checking and Adjusting the CTL-1 Board Servo Gain and Phase Applicable Board No.:

1-620-310-13 and higher

Caution: This item (3-10-2) is only applicable to CTL-1 Board with Board No. 1-620-310-13 and higher.

Refer to the previous page for the boards with Board No. 1-620-310-12.

- Pull out the CTL-1 board with an extension board.
- 2. Set VR4 in the vertical position, as shown in the following figure.



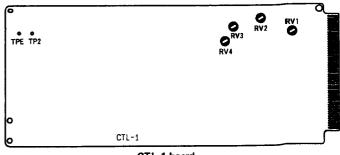
- 3. Connect a wow meter (Meguro MK615 or 616) between TPE and TP2.
- 4. Set the Test switch #3 of the MCK board in the up (ON) position.



Wow meter settings: Carrier frequency

Tape Speed: 10kHz at Low speed Tape Speed: 20kHz at High speed

L.P.F. 200Hz UNWEIGHTED RMS



CTL-1 board

VR1: PHASE OFFSET

VR2: SERVO GAIN LOW SPEED VR3: SERVO GAIN HIGH SPEED

VR4: PHASE GAIN

5. Mount a blank tape and set the usnit in REC PLAY MODE.

MCK-1 board settings: Fs 48kHz

Tape speed: High

Function panel settings: +30% VARI SPEED

- 6. Adjust VR3 until the capstan motor starts to oscillate. (A steady high tone will be heard.)
- 7. Function panel settings: -30% MCK board settings: Fs 44.056kHz Tape speed: High
- 8. Check that the capstan motor is not oscillating. If it is oscillating, adjust RV3 until the oscillation stops.
- 9. MCK board settings: Fs 48kHz
 Tape speed: High
 Function panel settings: 0% VARI SPEED
 Check that the wow is less than 0.025%
 by using a wow meter.

CTL-1 board	VR2
WOW Specification	0.025%

10. Adjust VRl so that the 4th green LED from the bottom on the phase meter of the front of the CTL-1 board lights up.

		, 0
CTL-1 board	VR1	0
Phase meter	4th green LED from the	0
	bottom lights up.	0
-		Lights up
		0
		0
		0

- 12. Adjust VR2 until the capstan motor starts to oscillate. (A steady high tone will be heard.)
- 13. Function panel settings: -30% VARI SPEED

MCK board settings: Fs 44.056kHz

- 14. Check that the capstan motor is not oscillating. If it is oscillating, adjust RV2 until the oscillation stops.
- 15. Function panel settings: 0% VARI SPEED MCK board settings: Fs 48kHz

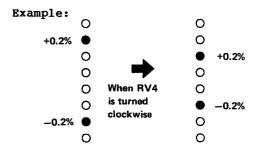
 Check that at this time the wow meter reads no more than 0.025%.

16. Check in both of the following modes that the capstan motor makes no strange noises, that the wow is no greater than 0.03%, and that the 4th or 5th LED from the bottom lights up on the phase meter.

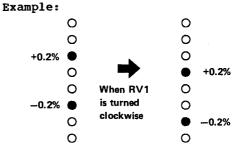
Tape Speed	Vari	FS
HIGH	+12.5%	48kHz
LOW	-12.5%	44.056kHz

17. Play back a AR3402-1 alignment tape with a tape speed of +0.2% and -0.2% and adjust RV4 and RV1 so that the following conditions are met.

The phase servo gain is adjusted by RV4. When RV4 is turned clockwise (the gain is increased), the LED blinking becomes faster when the alignment tape with a tape speed of ±0.2% is played back.

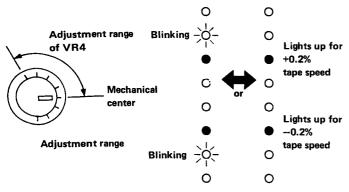


The phase servo offset is adjusted by RV1. When RV1 is turned clockwise, the position of the lighted LEDs moves downward.



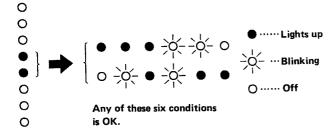
MCK-1 board settings: Tape speed High
Fs 48kHz

Tape Speed	Phase LED		
-0.2%	3rd LED from the bottom		
	lights up.		
+0.2%	3rd LED from the top		
	lights up.		



If these conditions can not be met within the above adjustment range for VR3, it is ok if the 2nd LED from the top (yellow) and the 2nd LED from the bottom light up (yellow).

18. Playback the AR3402-1 alignment tape at the portion with the tape speed of ±0% and check that of the two LEDs in the middle of the phase meter, either one or both light up or blink.



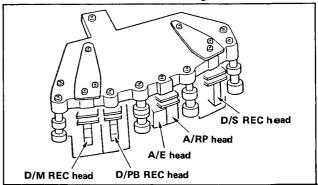
19. Set the Test switch #3 of the MCK board in the down (OFF) position.

3-11. HEAD BLOCK UNIT REPLACEMENT AND ADJUSTMENT

Tool:

Analog extension cable (J-6101-260-A)
Extension board
Head zenith block (J-6105-960-A)
1.5mm hexagonal wrench
Torque driver
M2.6 Phillips screwdriver
M4.0 Phillips screwdriver
Jeweler screwdriver

3-11-1. Overview of Head Replacement



The head block unit (HBU) of the PCM-3402 comprises the following four heads:

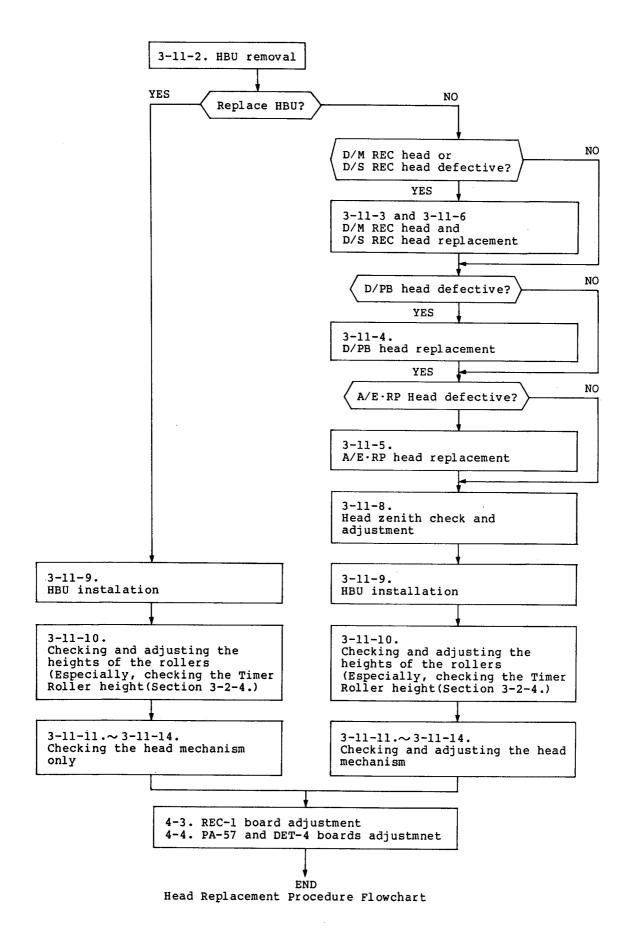
Two digital recording (D/REC) heads
One digital playback (D/PB) head
One analog recording/playback and erase
(A/E-RP) head

If these heads wear out or are damaged, they must be replaced and the new head adjusted.

There are two ways to replace heads.

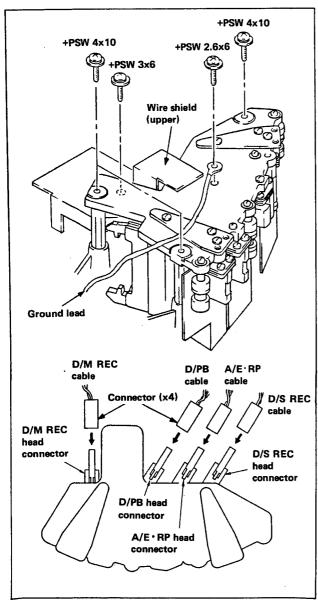
- 1. HBU replacement
 - In normal use, all the heads wear out at the same rate, so the entire head block unit is replaced.
- Replacing individual head assemblies
 If one head is damaged, that individual
 head assembly can be replaced.

It takes only a little time to replace the head block unit (and in principle there is no need for mechanical adjustment of the individual heads). When faced with one damaged head in a head block unit that is fairly worn, either method may be used as necessary.



3-11-2. HBU Removal

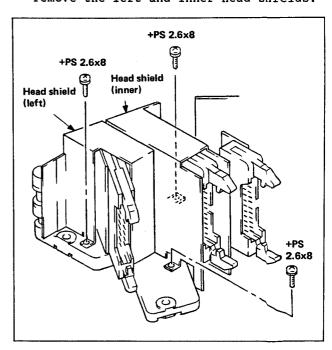
- 1. Remove the top plate and the ornamental panel as explained in Section 1-2-1.
- 2. Remove the front plate and the pad as explained in 1-2-2.
- 3. Remove the +PSW3x6 screw and the upper wire shield, shown in the figure below.
- 4. Remove the four connectors shown in the figure below.
- 5. Remove the +PSW2.6x6 screw and remove the ground lead, shown in the figure below.
- 6. Remove the three +PSW4x10 screws, then remove the head block unit. See the figure below.



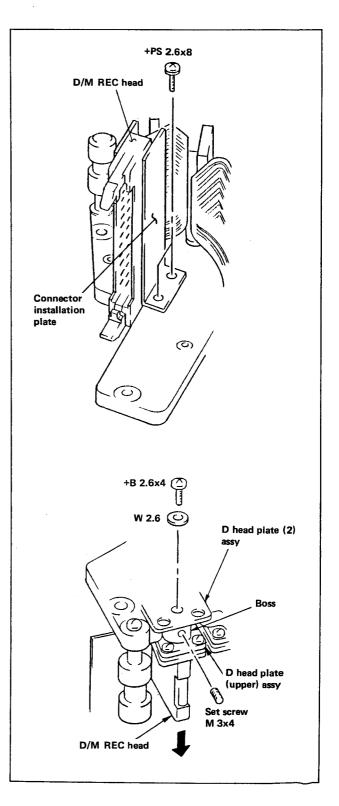
3-11-3. D/M REC Head Replacement

The D/M recording head is shown in the figure below.

Removing the left and inner head shields
 Remove the three +PS2.6x8 screws, then
 remove the left and inner head shields.



- Removing the D/M REC head assembly (shown in the figure on the right)
- 1) Remove the two PS2.6x8 screws, then remove the connector installation plate.
- 2) Remove the M3x4 screw
- 3) Remove the B2.6x4 screw and the 2.6 washer.
- 4) Pull the D/M REC head down and away. Note: Wipe any screw lock solution on the head block unit base completely away.
- 3. Assembling the D/M REC head assembly
- Remove the connector installation plate from the old D/M REC head assembly and install it on the replacement D/M REC head assembly.
- 2) Line up the pin coming out from the D head plate (2) assy with the slot on the D head plate (upper) assembly. Sandwich the compression coil sping in the hole of the D head plate (2) assy, and insert the boss of the D head plate (upper) assembly.
- 3) Use the +B2.6x4 screw and washer to lock the boss of the D head plate (upper) assembly.
- 4) Assemble by reversing the procedure given in 1)-3) of the Step 2 above.
- 4. Install the left and inner head shields.

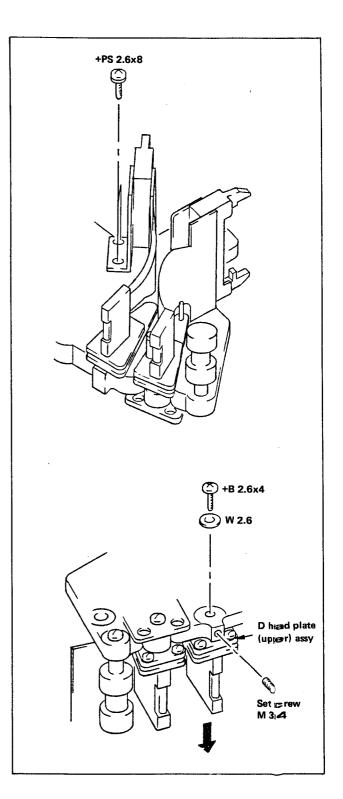


3-11-4. D/PB Head Replacement

- 1. Removing the left and inner head shields.
- Remove the three +PS2.6x8 screws, then remove the left and inner head shields. (See Step 1 of Section 3-11-3.
- 2. Removing the D/PB head assembly
- Remove the two +PS2.6x8 screws, then remove the connector installation plate from the head block unit base.
- Loosen the M3x4 hex screw holding the head block unit base.
- 3) Remove the +B2.6x4 screw and the 2.6 washer.
- 4) Pull the D/PB head assembly down and away.

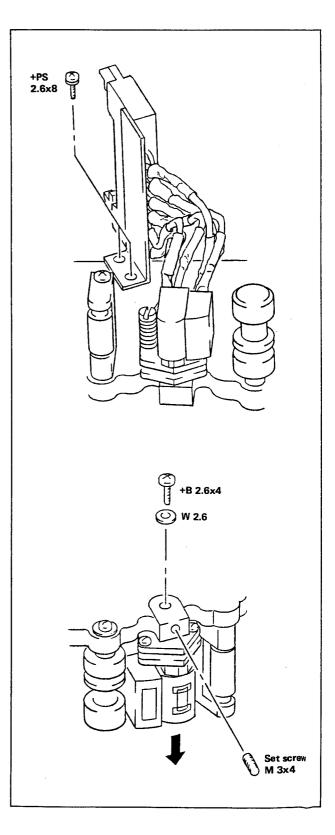
Note: Wipe any screw lock solution on the head block unit base completely away.

- 3. assemblying the D/PB head assembly
- Remove the connector installation plate from the old D/PB head assembly and install it on the replacement D/PB head assembly.
- 2) Line up the pin coming out from the head block unit base with the slot on the D head plate (upper) assembly. Sandwitch the compression coil spring in the hole of the head block unit base, and insert the boss of the D head plate (upper) assembly.
- 3) Use the +B2.6x4 screw and washer to lock the boss of the D head plate (upper) assembly.
- 4) Assemble be reversing the procedure given in 1)-3) of Step 2 above.
- 4. Install the left and inner head shields.



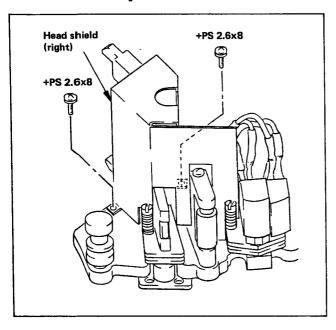
3-11-5. A/E.RP Head Replacement

- 1. Removing the A/E.RP head assembly
- Remove the two +PS2.6x8 screws, then remove the connector installation plate from the head block unit base.
- 2) Loosen the M3x4 set screw holding the head block unit base.
- 3) Remove the +B2.6x4 screw and the 2.6 washer.
- 4) Pull the A/E.RP head down and away. Note: Wipe any screw lock solution on the head block unit base completely away.
- 2. Assembly the A/E.RP head assembly
- Remove the connector installation plate from the old A/E.RP head assembly and install it on the replacement A/E.RP head assembly.
- 2) Line up the pin coming out from the head block unit base with the slot on the A head plate (upper) assembly. Sandwich the compression coil spring in the hole of the head block unit base, and insert the boss of the A head plate (upper) assembly.
- 3) Use the +B2.6x4 screw and washer to lock the boss of the A head plate (upper) assembly.
- 4) Assemble by reversing the procedure given in 1)-3) of Step 2 above.

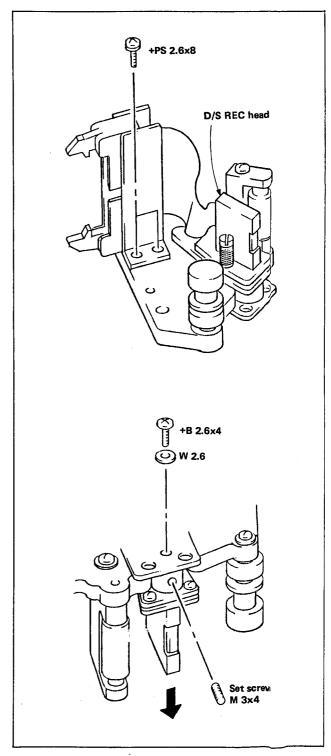


3-11-6. D/S REC Replacement

- 1. Removing the right head shield
- 1) Remove the two +PS2.6x8 screws, then remove the right head shield.



2. Replace the D/S REC head using the same procedure as that given for the D/M REC head in Section 3-11-3.



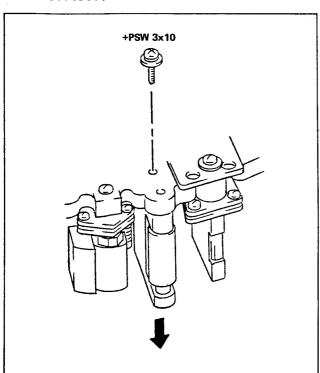
3-11-7. Scrape Filter Replacement

(1) Replacement period

- Replace the scrape filter after the period listed in the Periodic Inspection and Maintenance Schedule given in Section 2.
- Replace the scrape filter if it makes any strange noises.
- . Replace the scrape filter if it is scratched.

(2) Replacement method

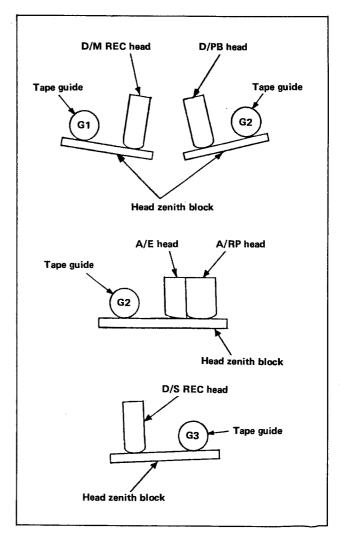
- 1. Remove the right head shield as explained in Section 3-11-6.
- 2. Remove the +PSW3x10 screw.
- 3. Remove the scrape filter assembly.
- 4. Install the new scrape filter assembly by following the procedure in Steps 1-3 in reverse.



3-11-8. Head Zenith Check and Adjustment

(1) Checking the zenith

- Push the head zenith block (J-6105-960-A) in such a way as to avoid scratching the head, as shown in the figure below.
- 2. Using the tape guide as a reference as shown in the figure below, check that there is no clearance between the head zenith block and the tape guide.

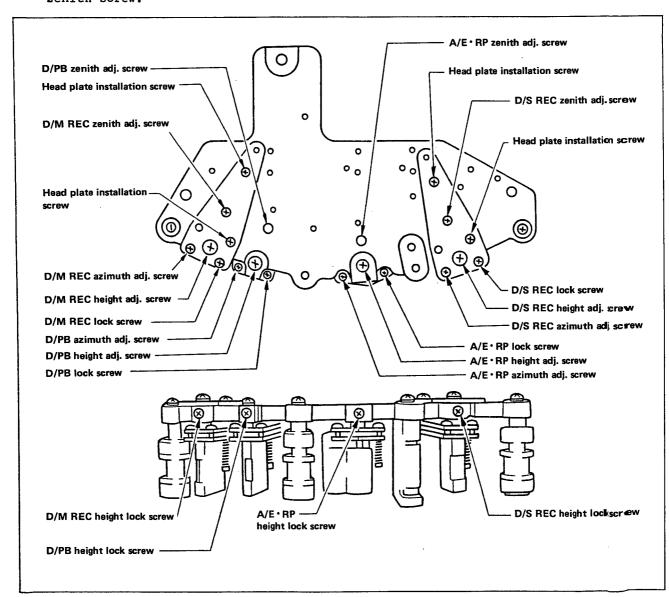


(2) Adjusting the zenith

1. If there is any clearance between the head or the tape guide and the head zenith block, turn the zenith screw to eliminate the clearance.

Note:

- . When replacing each head assembly, there is no need to adjust the head zenith because it has been adjusted at factory shipping.
- . Use a jeweler screwdriver to turn the zenith screw.



Head adjustment screws position

3-11-9. Installing the Head Block Unit

To install a head block unit on which one of the heads has been replaced or a new head block unit, use the following procedure.

- Mount the head block unit on the head base support post and secure it with the three +PSW4x10 screws. Tighten down these screws in the order (a b c) with a torquedriver and a torque of 16kg-cm. (See the figure shown on the right.)
- 2. Install the ground lead in its original position with the +PSW2.6x6 and LW2.6 washer. (See the figure on the right.)

Adjust the heights of the rollers, and check the head mechanisms.

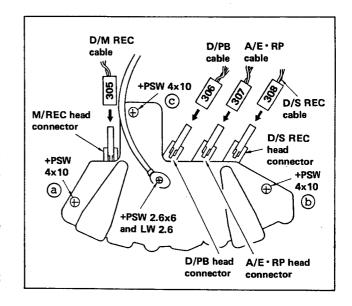
Follow the instructions given in the sections of 3-11-10 through 3-11-14 of their checks and adjustments on these cable connections and assembly.

3-11-10. Checking and Adjusting the Heights of the Rollers

Check the heights of the rollers and if necessary adjust them as explained in Sections 3-2-1 through 3-2-4.

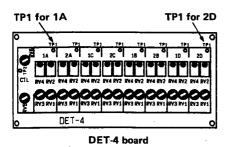
3-11-11. Adjusting the Head Azimuth

The head adjustment screws are shown in the figure for zenith adjustment in (2) of Section 3-11-8.

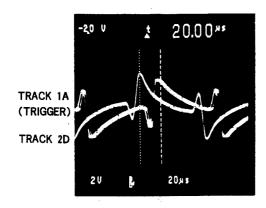


Connections and check points for adjusting the azimuth

Head	D/M REC	D/PB	D/S REC	A/E.RP
Cable	D/P	B cable (30	5)	A/E.RP cable (307)
Head connector	D/M REC head connector	D/PB head connector	D/S REC head connector	A/E.RP head connector
Check points	DET-4 board TP1 pins for TRACK 1A and TRACK 2D			ARP-1 board TP2 pins for CH1 and CH2

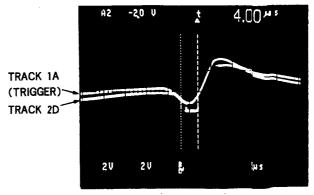


- (1) Adjusting the azimuth of the D/M REC head
- Plug the D/PB cable into the D/M REC head connector.
- 2. Connect the oscilloscope to the TP1 pins of TRACK 1A and TRACK 2D on the DET-4 board.
- 3. Play the D-REC azimuth section of the AR3402-1 alignment tape.
- 4. Loosen the D/M REC lock screw no more than one turn.



- Adjust the D/M REC azimuth screw so that the phase difference shown in the figure above is 0.
- Turn the D/M REC azimuth screw further clockwise until the phase difference is 20usec.
- 7. Tighten the lock screw so that the phase difference is 0.

Adjustment specification: 0 ± 2µseC



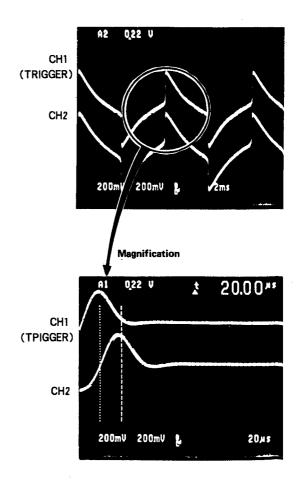
Note: Always check that the height lock screws for all the heads are tight before adjusting the azimuth.

- (2) Adjusting the azimuth of the D/PB head
- Plug the D/PB cable into the D/PB head connector.
- Adjust the azimuth of the D/PB head in the same manner as described in (1) "Adjusting the azimuth of the D/M REC head".
- (3) Adjusting the azimuth of the D/S REC head
- Plug the D/PB cable into the D/S REC head connector.
- Adjust the azimuth of the D/S REC head in the same manner as described in (1) "Adjusting the azimuth of the D/M REC head.

(4) Adjusting the azimuth of the A/E.RP head

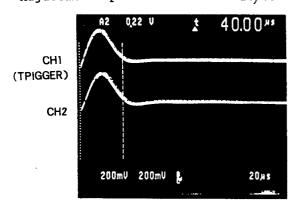
Tool: Analog extension cable J-6101-260-A Extension board

- Plug the A/E.RP cable into the A/E.RP head connector with an analog extension cable.
- 2. Connect the oscilloscope to TP2 of CH2 and TP2 of CH1 of the ARP-1 board.
- 3. Play the A-RP azimuth section of the AR3402-1 alignment tape.
- 4. Loosen the A/E.RP head azimuth lock screw.
- 5. Adjust the A/E.RP head azimuth screw so that the phase difference shown in the figure below is 0.
- Turn the A/E.RP head azimuth screw further clockwise until the phase difference is 20usec.



7. Tighten the lock screw so that the phase difference is 0.

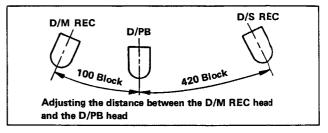
Adjustment specification: 0 ± 20µsec



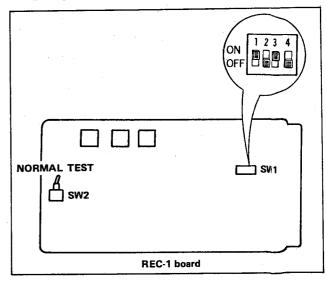
Note: Always check that the height lock screws for all the heads are tight before adjusting the azimuth.

3-11-12. Head Distance Adjustment

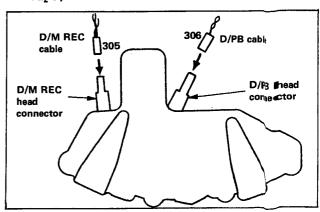
The head distance is only adjusted for the digital heads shown in the figure below. The distance for the analog head is determined by the mechanical precision, so it does not need to be adjusted.



 Switch on No. 1 and No.3 of DIP switch SW1 on the REC-1 board, shown in the figure below. The 12-block and 4-block frequency test signals are generated. Set SW2 to Test.



2. Connect the head connector and cable as shown in the figure below, mount a blank tape, and record in ADVANCE REC mode.



- 3. Loosen the two +B2.6x6 screws holding the head plate. The position of these two screws in the shown in the figure for adjusting the head zenith in Section 3-11-8.
- 4. While observing the waveforms at the TP1 pin of TRACK lA of the REC-1 board and at the TP1 pin of TRACK lA of the DET-4 board, swing the D/REC head assembly to the left or right with an eccentric screwdriver so that the negative pulse at TP1 of the DET-4 board matches the rising edge of the signal at TP1 of the REC-1 board as shown in the figure below. Observe the phase meter of the CTL board to make sure that the servo is locked.

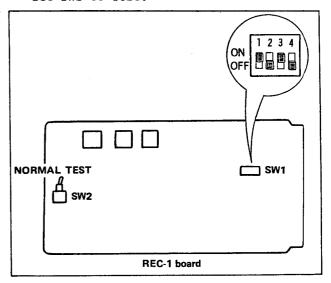
Adjustment specification: 0 ± 500usec

DET-4 board
TP1/TRACK 1A
REC-1 board
TP1/TRACK 1A
(trigger)

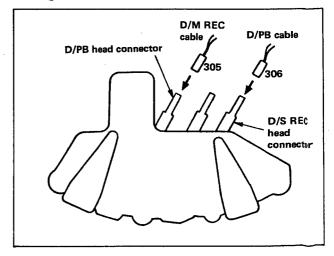
2 U 5 U 5 U 5 00 As

5. Tighten the two +B2.6x6 screws loosened in Step 3 with a torque of 6kg-cm, making sure that the head assembly does not move as you tighten these screws. Adjusting the clearance between the D/PB head and the D/S REC head

 Switch on Pins 1 and 3 of DIP switch SW1 on the REC-1 board. (See the figure below.) The 12-block and 4-block frequency test signals are generated. Set SW2 to Test.



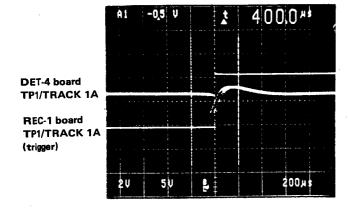
Connect the cable and head connector as shown in the figure below, mount a blank tape, and record in monitor mode.



- 3. Loosen the two +B2.6x6 screws.
- 4. While observing the waveforms at the TP1 pin of TRACK lA of the REC-1 board and at the TPl pin of TRACK lA of the DET-4 board, swing the D/S REC head assembly to the left or right with an eccentric screwdriver so that the negative pulse at TP1 of the DET-4 board matches the rising edge of the signal at TPl of the REC-1 board as shown in the figure

Observe the phase meter of the CTL-1 board to make sure that the servo is locked.

Adjustment specification: 0 ± 200µsec



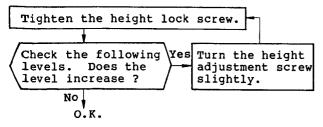
5. Tighten the two +B2.6x6 screws loosened in Step 3 with a torque of 6kg-cm, making sure that the head assembly does not move when you tighten these screws.

3-11-13. Head Height Adjustment

Here are the connections and check points for adjusting the heights of the heads.

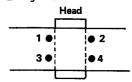
Head	D/M REC	D/PB	D/S REC	A/E.RP
Head connector	D/M REC head connector		D/S REC head connector	A/E.RP head connector
Cable	D/PB cable			A/E.RP cable
Check point	DET-4 board TPl pin for TRACK 2C on the DET-4 board			TP2 pins for CH1 and CH2 on the ARP-1 board

- (1) Adjusting the height of the D/M REC head and the D/S REC head
- Connect the oscilloscope output to a voltage meter.
- Connect the oscilloscope to TPl of TRACK
 on the DET-4 board.
- 3. Connect the head connector and cable as indicated in the table above and play the D-REC height section of the AR3402-1 alignment tape.
- 4. Loosen the height lock screw for each of the digital recording heads, adjust the height adjustment screw for each REC head to provide the maximum playback output, and tighten down the height lock screw for each digital REC head.



Check method

Push the four points of the tape slightly with your finger.



- 1 or 2: The level increases. The head is low.
- 3 and 4: The level increases. The head is high.
- 1 and 4: The level increases. The head is tilted toward the left. (Azimuth)
- 2 and 3: The level increases. The head is tilted toward the right. (Azimuth)

Note: If the height lock screw is not tightened down, the tape contact will be inadequate and the output level will be low. Adjust the height to give the maximum output when the height lock screw is tightened down.

- (2) Adjusting the height of the D/PB RP head
- Use the D-PB height section of the AR3402-1 alignment tape and adjust the height of the D/PB head in the same way as just explained for the digital REC heads.
- (3) Adjusting the height of the A/E RP head
- Connect the head connector and cable listed in the table above, then connect the oscilloscope and voltmeter to the specified check points.
- 2. Play the A-RP section of the AR3402-1 alignment tape and adjust the A/E RP head in the same way as explained for the D/M REC and D/S REC heads.

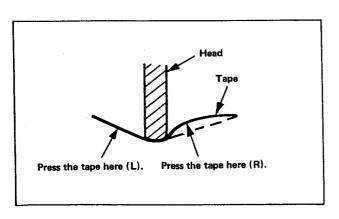
3-11-14. Head Contact Checking

Here are the connections and check points for checking the head contact.

Head	D/M REC	D/PB	D/S REC	A/E.RP
Head connector	D/M REC head connector	D/PB head connector	D/S REC head connector	A/E.RP head connector
Cable	D/PB cable			A/E.RP cable
Check point	TPl pin for TRACK 2C on the DET-4 board		TP2 pin for CH1 on the ARP-1 board	

Checking the tape contact for the D/M REC head, D/S REC head, and D/PB head

- 1. Connect the oscilloscope to the TPl pin of TRACK 2C on the DET-4 board.
- 2. Connect the head connector and cable as indicated in the table above and play the Digital Head Height section of the AR3402-1 alignment tape AR3402-1. (Use the REC HEIGHT section for REC head and PB HEIGHT section for PB head.)
- 3. Press the tape just to the left and right of the D/M REC, D/S REC and D/PB heads lightly, as indicated in the figure below, and check that the amplitude of the waves does not increase.



Checking the A/E.RP head contact

- Connect the oscilloscope to ANALOG OUT CH1(A1) and CH2 (A2) (XLR connector) on the rear panel (or take playback signals from TP2 of CH1 and TP2 of CH2 on the ARP-1 board).
- Connect the head connector and cable as indicated in the table above, then playback the Analog Head Height section of the AR3402-1 alignment tape.
- 3. Press the tape just to the left and right of the A/E.RP head lightly and check that the amplitude of the waves does not increase.

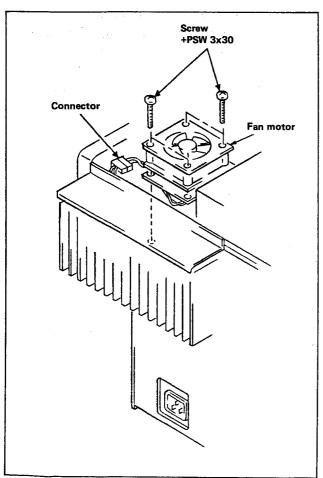
3-12. FAN REPLACEMENT

Replacement period

- Replace the fan after the period listed in the Periodic Inspection and Maintenance Schedule given in Section 2.
- . Replace the fan if it stops turning.
- . Replace the fan if it makes funny noises when it turns.

Replacement method

- 1. Remove the top plate.
- 2. Remove the connector for the fan motor.
- 3. Remove the four +PSW3x30 screws, then remove the fan motor. (See the figure below.)



- 4. Turn the replacement fan motor by hand and check that it moves smoothly without making any strange noises.
- 5. Install the replacement fan motor by reversing the procedure given above for removal.
- Switch on the power and check that the fan turns.

SECTION 4 ELECTRICAL ADJUSTMENTS

INTRODUCTION

This section covers the electrical adjustments required for board repair and mainte-All of these adjustments assume that all functions other than the one being adjusted are operating normally. When the trouble affects more than one adjustment, we recommend to check all adjustments preceding and subsequent to the adjustment to be performed. This section covers and controls in adjustments of switches the main unit required for meeting specifications. Details on external switches, controls, and operations are in the Operation Manual.

Initial settings
(switch settings for each board)

Board	Switch Name	Mode
SEP-1	EE/PB	PB
ED-16	SPLICE EDIT X' FADE TIME	1
ED-17	E, EDIT X' FADE TIME	2
MCK-1	LOCK MODE	ні
	AUTO CUE	OFF
	Fs	48k
	SPEED	INT
	PROGRAM TC	OFF
MCK-1	REC TC	INT
DIO-2	SDIF-2/AES·EBU	SDIF-2
DAD-1	DIGITAL IN/ANALOG IN	AIN
	EMPHASIS	OFF

Recommended equipment

K6COmmenger edarbu	CIIC	
Equipment	Model	Standard
Oscilloscope	TEKTRONIX 455	2ch, 60MHz
AC voltmeter	HP 400FD	RMS values
		dB display
Audio meter	ST-1710A	
signal generator		
level meter		
distortion meter		

Note: LINE MONITOR MODE of the switch and control settings means to press any of the Monitor Signal Select Buttons.

 $_{\mbox{\scriptsize AUX}}$ MONITOR MODE means to press either of the Auxiliary Track Signal Select Buttons.

4-1. ARP-1 BOARD ADJUSTMENT

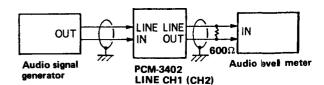
This section explains how to adjust the audio signal level and the AUX TRACK recording and playback.

4-1-1. Line Input /output Adjustment

This adjustment should be carried out whenever the ARP-1 or DAD-1 board is replaced.

Equipment required
Audio signal generator
Audio level meter
Oscilloscope

Connections

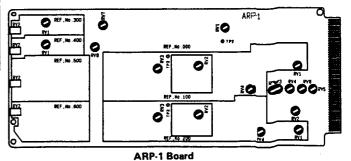


Switch and control settings

Monitor housing	/REF MARKER	;	-20dB
Monitor housing	SCALE SW	;	O.2dB
	LINE MONITOR	MODE:	INPUT
MCK-1 board	TAPE SPEED	:	HI
	TAPE SPEED Fs MODE	:	4 8k
DAD-1 board	/ EMP ON/OFF	:	OFF
	EMP ON/OFF AIN/DIN	:	AIN

Adjustment locations

ORV301, 302, 501 ORV401, 402, 601



Adjustment procedure

1. Input CMRR adjustment

Input signals with the same phase and same amplitude to the HOT and COLD inputs (+24dBs, 10kHz).

Connect the audio level meter or oscilloscope to TP301 (CH1) and TP401 (CH2).

Specification: minimize the output.

ORV301 (CH1)

ORV401 (CH2)

2. Input level adjustment

Set the input to lkHz and +4dBs. Specification: Adjust so that the -20dB position on the digital level meter lights up and so that when the input is increased by +0.1dB, the LED segment (-18dB) just above -20dB lights up.

ORV302 (CH1)

ORV402 (CH2)

3. Output level adjustment

Set the input to 1kHz and +4dBs.

Read off the output from the level meter.

Specification: +4±0.1dBs.

ORV501 (CH1)

⊘RV601(CH2)

4-1-2. 1kHz Test Signal Oscillation Level Adjustment

Equipment required

Frequency counter

Oscilloscope

Connections

Connect the oscilloscope to TP4 of the ARP-1 board and monitor the frequency with the frequency counter.

Switch and control settings

Monitor housing / REF MARKER : -20dB : 0.2dB SCALE SW LINE MONITOR MODE: INPUT MCK-1 board TAPE SPEED Fs MODE : 48k DAD-1 board EMP ON/OFF : OFF AIN/DIN : AIN ARP-1 board SW1 OSC ON/OFF : ON

Adjustment procedure

- Oscillation frequency adjustment Specification: 1kHz±0.005Hz

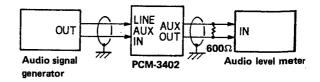
 ORV7
- 2. Oscillation level adjustment Adjust RV8 so that -20dB on the digital level meter lights up (both CH1 and CH2).

4-1-3. AUX Input/output Level Adjustment

Equipment required

Audio signal generator Audio level meter

Connections



Switch and control settings

Monitor housing REF MARKER : -20dB SCALE SW : 0.2dB

LINE and AUX MONITOR MODE: INPUT

MCK-1 board

TAPE SPEED : HI

Fs MODE : 48k

DAD-1 board

(EMP ON/OFF : OFF AIN/DIN : AIN

Adjustment locations

ORV101, 103

ORV201, 203

Adjustment procedure

1. AUX output level adjustment

Input a lkHz, +4dBs signal to the LINE input. Insert the jumper sockets of the AUX CH1 (CH2) block on the ARP-1 board into the J101, J103 and J201 jumper pins. In other words, make the line input AD/DA signals the AUX input. Read out the AUX OUT output level with the audio level meter.

Specification: +4dBs±0.1dB

ORV103 (CH1)

ORV203 (CH2)

2. AUX input level adjustment

Input a lkHz, +4dBs signal to the AUX input. Insert the jumper sockets of the AUX CH1 (CH2) block on the ARP-1 board into the J102, J103, and J202 jumper pins. In other words, use the AUX IN signals as input. Read out the AUX OUT output level with the audio level meter.

Specification: +4dBs±0.1dB

RV101(CH1)

RV201 (CH2)

The next section explains the AUX TRACK record and playback adjustment.

4-1-4. AUX TRACK (CH1, CH2, and TC) Playback Level Adjustment

Equipment required

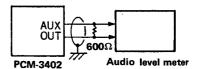
Audio level meter

Oscilloscope

Tape

PCM-3402 alignment tape AR3402-1

Connections



Switch and control settings

Monitor housing (MSAFE SW : ON
AUX MONITOR MODE: REPRO
MCK-1 board (TAPE SPEED : LO
FS MODE : 48k

Adjustment locations

ORV102 (AUX CH1)

ORV202 (AUX CH2)

ORV1 (TC)

Adjustment procedure

 AUX CH1 and CH2 playback level adjustment

Playback the AUX TRACK REF. LEVEL section of the PCM-3402 alignment tape and read out the AUX output level.

Specification: +4dBs within +0.2/-0.5 dB

@RV102(CH1)

2. AUX TC playback level adjustment

Playback the AUX TRACK REF. LEVEL section of the PCM-3402 alignment tape and read out the level of the output wave at TP2 with the oscilloscope.

Specification: 1.8Vp-p±0.3V

ORV1

4-1-5. Bias Oscillation Circuit Adjustment

Equipment required

Frequency counter Oscilloscope

Tape

Work tape

Switch and control settings

Monitor housing (MSAFE SW : OFF ASSEMBLE REC: ON

MCK-1 board

TAPE SPEED : LO

Fs MODE : 48kHz

Adjustment locations

ORV2, LV101, LV201

Adjustment procedure

While recording, perform the following adjustment.

1. Bias frequency adjustment

Connect the TP104 or TP204 to the frequency counter and read off the frequency.

Specification: 96kHz±500Hz

⊘RV2

2. Bias amp output level adjustment

Connect the osicilloscope to TP104 (CH1) or TP204 (CH2) and monitor the waveform. Specification: 95%±5% of peak output

OLV101 (CH1)

⊘LV201 (CH2)

4-1-6. AUX CH1 and CH2 recording level adjustment

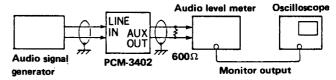
Equipment required

Audio signal generator Audio level meter Oscilloscope

Tapes

C1C-DAQ (or a C2D-DAQ recognized as the equivalent of a C1D)

Connections



Switch and control settings

Monitor housing MSAFE SW : OFF
ASSEMBLE REC : ON
LINE MONITOR MODE: INPUT

MCK-1 board Fs MODE : 48k J21, J23 jumpers ON (REC ON CONTROL)

Adjustment locations

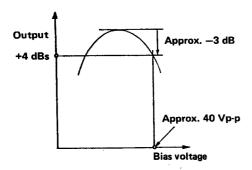
⊘RV3, 4, 5, 6 **⊘**RV104, 204

Adjustment procedure

Input a lkHz, +4dBs signal to the line input with the signal generator. Set the tape speed to LO (on the MCK-1 board). Set the RV104, RV204, RV3, RV4, RV5 and RV6 to their mechanical centers. Adjust while recording and playing back a ClD-1/4A tape.

Rough adjustment of the recording level (Bias level adjustment)

Record while turning RV4 (CH1) and RV6 (CH2) and monitor TP104 and TP204 with the oscilloscope. Adjust so that the AUX output level in the playback mode is about +4dBs. However, the bias level must be greater.



DC erase offset cancellation adjustment (Distortion adjustment)

Record and playback over and over, and measure the distortion ratio of the AUX output by monitoring the DC level of TP104 and TP204 in STOP mode with oscilloscope.

Specification: 3% or less

ORV104 (CH1)

ORV204 (CH2)

3. Recording level fine adjustment

Here, monitor the AUX output the same way as in step 1, and adjust the controls listed below at low and high tape speeds.

Specification: +4dBs±0.3dB

ORV4(LO: CH1)

ORV6(LO: CH2) Low Speed

ORV3 (H1: CH1)

ORV5(H1: CH2) High Speed

4-1-7. AUX CH1 and CH2 Recording and Playback Characteristics Check

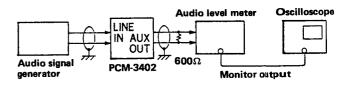
Equipment required

Audio signal generator Audio level meter Oscilloscope

Tape

ClC-DAQ (or a C2D-DAQ recognized as the equivalent of a C1C)

Connections



Switch and control settings

Monitor housing MSAFE SW : OFF
ASSEMBLE REC : ON
LINE MONITOR MODE: INPUT
MCK-1 board Fs MODE : 48k
J21, J23 jumpers ON (REC ON CONTROL)

Adjustment procedure

- 1. AUX CH1 and CH2 recording and playback frequency characteristics
 Output levels of 100Hz and 10kHz, using a 1kHz, +4dBs signal as a reference at low and high tape speeds
 Specification: within ±4dB
- 2. AUX CH1 and CH2 recording and playback distortion ratio
 At low and high tape speeds
 Specifications: 4% or less and within ±1dB

3. S/N ratio

Using a 1kHz, +4dBs signal as ↓ ≰eference at low and high tape speeds

Specification: 35dB or less

4-1-8. AUX TRACK TC Recording Adjustment

Since the TC recording current level is fixed, this section explains how to perform the DC erase offset cancellation adjustment.

Equipment required

Oscilloscope

Tape

C1C-DAQ, C2D-DAQ, or other ordinary tape

Switch and control settings

Monitor housing / MSAFE SW : OFF

ASSEMBLE REC: ON

MCK-1 board

TAPE SPEED : LO

Fs MODE : 44.056k

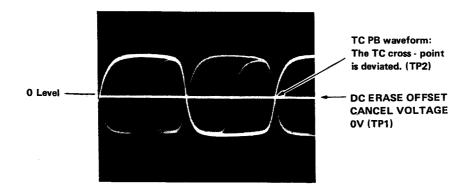
Adjustment procedure

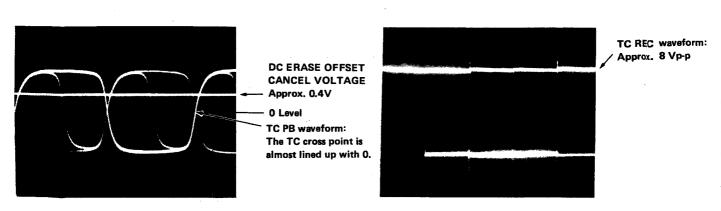
Connect the oscilloscope to TP1 (TC recording waveform) and TP2 (TC playback waveform).

- 1) Turn RV9 so that the DC level at TPl is OV in STOP mode.
- 2) Perform self-recording and playback, and turning RV9, add the inverted DC level in REC mode to cancel the deviation from the zero-cross point of the time code waveform.

Specification: within ±0.3V of the zerocross point

Adjustment locations ORV9





4-2. DAD-1 BOARD ADJUSTMENT AND CHECK

Before adjusting the DAD-1 board, always make sure that the ARP-1 board is properly adjusted.

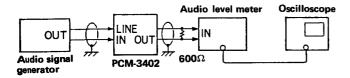
4-2-1. A/D Converter Offset Adjustment

Switch on the power and leave it on for 5 minutes to allow the system to warm up.

Equipment required

Audio signal generator Audio level meter Oscilloscope

Connections



Switch and control settings

Monitor housing (SCALE SW : NORMAL LINE MONITOR MODE: INPUT MCK-1 board TAPE SPEED : HI

DAD-1 board (EMP ON/OFF : OFF AIN/DIN : AIN

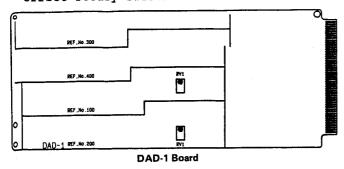
Adjustment locations

ORV101 ORV201

Adjustment procedure

Preparations

- 1 MCK-1 board Fs: 48kHz
- 2 DAD-1 board Set the A/D and D/A digital
 offset rotary switches to A.



1) Rough adjustment

Apply a lkHz, -76dB (-52dBs) signal to the line input.

Specification:

-57.8dB > -60dB display range > -70.3dB

Adjust so that the -60dB position on the digital level meter turns off and also check that the line output level is -76dB (-52dBs) ± 2 dB.

ORV101 (CH1)

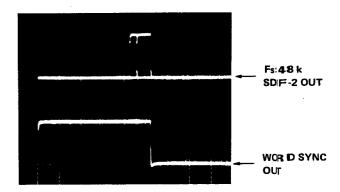
ORV201 (CH2)

Set the Digital I/O format selector of DIO board to SDIF and monitor the SDIF-2 (CH1 and CH2) OUT and WORD SYNC OUT with the oscilloscope.

Specification: Adjust so that the amplitude of the data is 2 bits or less as shown in the waveform below.

ORV101 (CH1)

ORV201 (CH2)



2) Fine adjustment

Switch off the LINE input signal. Switching the modes of the Fs elector and SPEED selector on the MCR board, adjust RV101 and RV201 to obtain the following specification.

Specification: The noise level must be no greater than -89 dB (-65 dBs) and the waveform must be like white noise.

ORV101 (CH1)

ORV201 (CH2)

4-2-2. DAD-1 Board Characteristics Check

1. Noise level check

EMP ON

With input off in all the Fs and SPEED modes,

Specification:

+24(dBs) - noise level(dBs) > 90dB

2. Distortion ratio check

EMP OFF

(100Hz, 1kHz, 10kHz) +4dBs,

(100Hz, 1kHz, 10kHz) +24dBs

EMP ON

(100Hz, 1kHz, 10kHz) +4dBs

Specification: 0.5% or less

3. Frequency characteristic check

EMP On and Off

Using a 1kHz and +4dBs signal as reference, check 20Hz, 100Hz, 10kHz, 15kHz and 20kHz output levels.

Specification: Level = within +0.5dB

4-3. REC-1 BOARD ADJUSTMENT

This section explains how to adjust the recording current for recording digital audio data in 12 tracks with the 2 recording heads.

4-3-1. Digital Recording Current Offset Adjustment

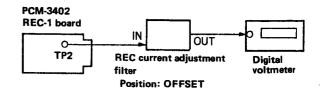
Equipment required

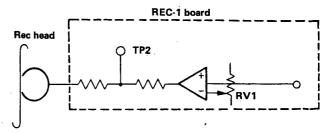
REC current adjustment filter (J-6222-020-A)
Digital voltmeter

Tape

Work tape

Connections





Switch and control settings

Monitor housing ASSEMBLE REC : ON

MCK-1 board / TAP

TAPE SPEED

: HIGH : 48k

REC-1 board

TEST/NORM

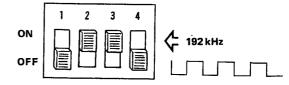
Fs MODE

: TEST

SWl

: See the figure below.

SWl



(When SW1 is set as shown in the figure above, a 192kHz square wave is generated.)

Adjustment procedure

- Connect REC Current Adj. jig (J-6222-020-A) and Digital Voltmeter to REC-1 board TP-2 using extension board.
- 2. Adjustment procedure

Set SWl as shown in the figure to generate a 192kHz square wave, then adjust RVl for each track while recording the square wave. Adjust RVl so that the reading on the digital voltmeter meets the following specification.

Specification: 0 ±5mV DC Adjustment location

-- RV1 for each track

Adjustment location

ORV1 for each track

4-3-2. Digital Recording Current Level Adjustment

Equipment required

AC voltmeter

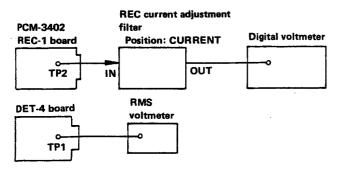
MN-44513 NOISE METER (MEGURO)
HP-3400 AC Voltmeter

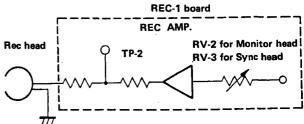
Digital monitor head jig (J-6105-730-A)
REC current adjustment jig (J-6222-020-A)
Digital votmeter

Tape

ClC-DAQ (with data)

Connections





Besides the connections shown in the drawing above, connect the harness that is connected to CN304 on the PA-57 board, to the monitor PB head.

Switch and control settings

Monitor housing ASSEMBLE REC : ON

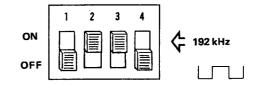
MCK-1 board (TAPE SPEED : HIGH

FS MODE : 48k

REC-1 board (TEST/NORM : TEST

SW1 : See the figure below.

SWl



MON REC HEAD

Adjustment procedure

- Connect AC voltage meter to TP-1 on DET-4 board.
- 2. Connect REC Current Adj. jig (J-6222-020-A) and Digital Voltmeter to REC-1 board TP-2 using extension board and switch to current mode.

Switch settings

Monitor housing: Monitor Rec

REC MODE

: MONITOR

ASSEMBLE REC : ON

3. Measure "Vb" while in record.

Turn RV2 on REC-1 board and read off the peak playback level. Next, turn RV2 back counter-clockwise so that playback level becomes -0.3dB comparing the peak level.

Then measure Head Drive Voltage ("Vb") by digital voltmeter.

4. Measure "Va" while in record.

Turn RV2 slowly clockwise and confirm the peak playback level.

Turn clockwise again so that playback level becomes -0.3dB comparing the peak level. Then measure Head Drive Voltage ("Va") by digital voltmeter.

Note: Perform 4 and 5 three times.

5. Calculate V'nr of monitor rec head by using equation:

$$V'nr = \frac{Va + Vb}{2}$$

6. Calculate V mean of monitor rec head by using equation:

$$V mean = \frac{V'nr1 + V'nr2 + V'nr3}{3}$$

7. Calculate V'nr of monitor rec head by using equation:

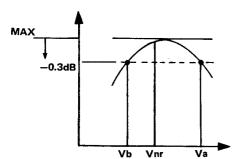
 $Vnr = 0.95 \times V mean/kt$

Va: -0.3dB below peak of playback level at upper side of peak current.

Vb: -0.3dB below peak of playback level at lower side of peak current.

Vnr: Adjustment MONITOR REC HEAD drive voltage.

kt: Coefficient of current calibration
 of "ClC-DAQ" reference tape.



8. Measure CTL Track Va, Vb using 4, 5 and 6.

Note: Perform this procedure one time.

9. Calculate Vctl using equation:

 $Vctl = 1.1 \times (0.95 \times V'nr)/kt$

Vctl: Head drive voltage for CTL record current

Adjustment location

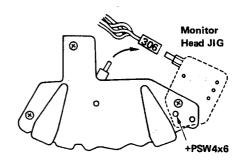
RV2 for each track

The coefficient kt tape is indicated on each ClC-DAQ. Be sure to use this kt when calculating Vnr.

SYNC-REC HEAD

Adjustment procedure

Install the monitor head jig.
 Install the monitor head jig by PSW4x6 screw (See the figure below.) and connect CN306 connector from PA-57 to monitor head jig.

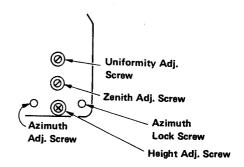


2. Uniformity adjustment

Probe TP1 on the track 2C of DET-4 board and playback pre-recorded alignment tape (AR3402-1) at digital playback height section. Turn the uniformity adj. screw to get maximum level (See the figure below.).

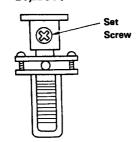
Height

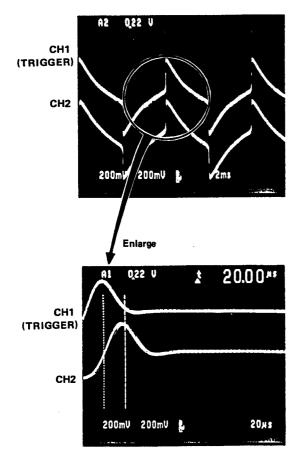
Probe TPl on the track 2C of DET-4 board. Playback pre-recorded alignment tape (AR3402-1) at digital playback height section and turn height adj. screw for peak level.



4. Azimuth adjustment

- . Probe TP1 on the tracks 2D and 1A.
- Playback pre-recorded alignment tape (AR3402-1) at digital playback Azimuth section.
- . Loosen the Azimuth lock screw less than 1 rotation.
- . Adjust the Azimuth adj. screw so the phase of track 1A & 2D are in phase.
- . Turn the Azimuth adj. screw clockwise so the phase distance between (1A-2D) becomes 20µsec.
- . Fasten the Azimuth lock screw. The phase of 1A and 2D should be 0µsec. spec. 0±10µsec.





- Height precise adjustment Same as 3.
- 6. Confirmation of uniformity
 - . Probe TP1 on the track 2C of DET-4 board.
 - Playback alignment tape (AR3402-1) at digital playback height section prerecorded.
 - Gently touch the bottom and top of the tape before and after the monitor head jig. Confirm TP1 signal has not increased in amplitude.
- Connect AC voltage meter to TP1 on DET-4 board.
- 3. Connect REC Current Adj. jig (J-6222-020-A) and Digital Voltmeter to REC-1 board TP2 using extension board and switch to current mode.

Switch settings

Monitor housing: SYNC REC

REC MODE : SYNC

ASSEMBLE REC : ON

9. Measure "Vb" while in record.

Turn RV3 on REC-1 board and read off the peak playback level. Next turn RV3 back counter-clockwise so that playback level becomes -0.3dB comparing the peak level. Then measure Head Drive Voltage ("Vb") by digital voltmeter.

10. Measure "Va" while in record.

Turn RV3 slowly clockwise and confirm the peak playback level. Turn clockwise again so that playback level becomes -0.3dB comparing the peak level. Then measure Head Drive Voltage ("Va") by digital voltmeter.

Note: Perform 4 and 5 three times for accurate measurement.

11. Calculate V'nr of sync rec he ad by using equation:

$$V'nr = \frac{Va + Vb}{2}$$

12. Calculate V mean of sync rec head by using equation:

$$V mean = \frac{V'nr1 + V'nr2 + V'nr3}{3}$$

13. Calculate V'nr of sync rec head by
 using equation:

 $Vnr = 0.95 \times V mean/kt$

Va: -0.3dB below peak of playback level at upper side of peak current.

Vb: -0.3dB below peak of playback level at lower side of peak current.

Vnr: Adjustment MONITOR REC HEAD drive voltage

kt: Coefficient of current calibration
 of "ClC-DAQ" new reference tape.

14. Measure CTL track Va, Vb using steps 4,
5 and 6.

Note: Perform this procedure one time.

15. Calculate Vctl of sync rec head using equation:

- 16. While recording in sync rec mode, adjust RV3 for Vnr found above at REC-1 poard TP2.
- 17. Perform 7 to 17 for all track, including CTL track.

Adjustment location

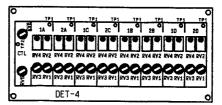
ORV3 for each track

Each ClC-DAQ tape has its own coefficient kt. Be sure to use this kt when calculating Vnr.

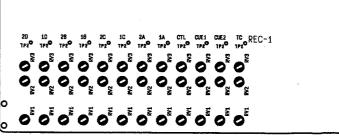
4-3-3. Recording Current Adjustment Check

In order to check that there are no problems in the recording head contact or with the head itself, play back the sections of tape recorded in monitor recording and sync recording and check the levels.

Specification: The difference between the playback levels for both D/M REC and D/S REC heads must be no greater than 0.5dB.



DET-4 Board



REC-1 Board

4-4. PA-57 AND DET-4 BOARDS ADJUSTMENT

This section explains how to adjust the digital playback system for the digital audio data.

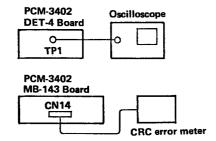
Equipment required

CRC error meter (J-6220-210-A) Oscilloscope

Tapes

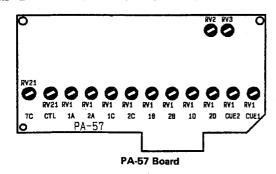
C1C-DAQ or C2D-1/4A
PCM-3402 alignment tape AR3402-1

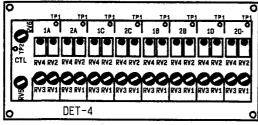
Connections



Switch and control settings

REC-1 board (TEST/NORM : NORM)
ARP-1 board (1kHz OSC SW: ON)





DET-4 Board

4-4-1. Digital Playback System Rough Adjustment

Play back the data track playback adjustment section of the alignment tape. Adjust the adjustment locations listed below so that the waveforms on the oscilloscope look like those shown in the figures below.

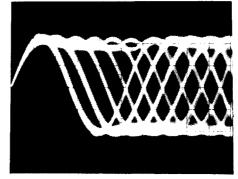
1. HIGH SPEED

Switch settings MCK-1: SPEED/HIGH Fs : 48kHz

- (1) Play back the "CTL and data track pre-adjustment" section of the Prerecorded alignment tape (AR3402-1).
- (2) . Connect DVM to TP2
 Adjust RV2 for about 8VDC
- (3) Probe TP1 on the track 1A of DET-4 board.
 - . Adjust RV1 on the track 1A of PA-57 board so that the jitter at the cross-point is minimum.
 - . Adjust RV3 on the track 1A of DET-4 board so that the jitter at the cross-point is minimum,
 - . Adjust RV4 on the track 1A of DET-4 board so that the offset at the cross-point is minimum (See the figure below.).
 - . Repeat above for all digital tracks.

(4) Adjustment location

PA-57 ORV2 and Track 1A RY1, 201, 301, 401, 501, 601, 701, 801, 901, 1001, 1101, 1201



HIGH SPEED Fs:485 kHz

2. LOW SPEED

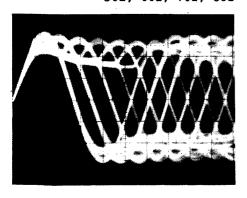
Switch settings MCK-1: SPEED/LOW Fs : 48kHz

- (1) Play back the "CTL and data track pre-adjustment" section of the prerecorded alignment tape (AR3402-1).
- (2) Connect DVM to TP2 on PA-57 board. Adjust RV3 for about 1.4VDC.
- (3) Probe TP1 on DET-4 board.
 - . Adjust RV1 on the track 1A of the DET-4 board so that the jitter at the cross-point is minimum.
 - . Adjust RV2 on the track lA of DET-4 board so that the offset at the cross-point is minimum (See the figure below.).
 - . Perform above procedure for all digital tracks.
- (4) Adjustment location

PA-57 **⊘**RV3

DET-4 Track 1A RV1, 201, 301, 401, 501, 601, 701, 801

Track 1A RV2, 202, 302, 402, 502, 602, 702, 802



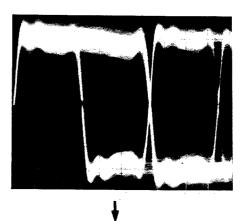
LOW SPEED Fs: 48 kHz

4-4-2. CTL Track Playback Adjustment

Set the SPEED setting on the MCK-1 board to HI (Fs of 48kHz). While recording and playing back, there should be no distortion at the top and bottom of the waveform. See the figure below.

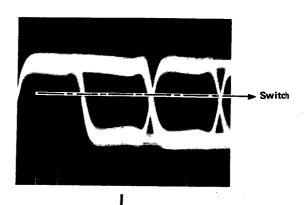
Adjust RV21 on PA-57 board for max. amp. without ringing.

PA-57 Board ORV1



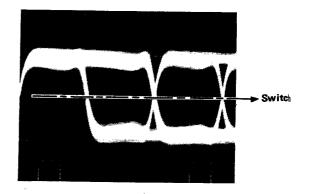
Adjust RV5 on DET-4 board for min. ringing. Top and bottom of the waveform should be flat shown in photograph.

DET-4 Board ORV5



Set the oscilloscope to the AC coupling, and line up the click points and the cross points.

DET-4 Board ORV6



4-4-3. Digital Data Track Playback-system Fine Adjustment

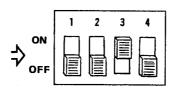
Load a C1C-DAQ tape or a C2D-1/4A tape.

(1) Switch and control settings

MCK-l Board Fs mode: 48kHz

Test switch : S8 DIP switch

Note: After the adjustment, al-ways restore the test switch to its original position. (This allows ±30% Varispeed.)



(2) TAPE SPEED: HIGH

Perform monitor recording on C1C-DAQ or C2D-1/4A. Perform a sync insert recording to make a self-recorded tape. Make sure the playback overwrite tape recording is longer than the error measurement time. Play back at VARI about +18%. During playback, adjust the location listed below in such a way as to minimize the CRC error on each track read out by the CRC error meter.

1. PA-57 RV2: Adjust •RV2 a little to minimize the CRC error.

CRC error meter SW setting: AUTO/MANUAL :AUTO

COUNT PERIOD: MIN.

- 2. PA-57 RVI: Adjust ORVI to minimize the CRC error and to minimize the cross-point jitter. CRC error meter SW setting is same as #1.
- 3. DET-4 RV3: Adjust ORV3 to minimize the CRC error and crosspoint jitter.

CRC error meter SW setting:

AUTO/MANUAL : AUTO

COUNT PERIOD: SECOND POSITION FROM MIN.

4. DET-4 RV4: Adjust RV4 to minimize the CRC error and cross-point offset.

CRC error meter SW setting:

AUTO/MANUAL : AUTO

COUNT PERIOD: MAX.

5. Repeat steps 2 through 4 to get minimum CRC error. TARGET: Under level A (If you cannot reach to level A,

6. Adjustment location

that is O.K.)

- (1) PA-57 ORV2 (High Freq. E. Q.)
- ② PA-57 **O**RVl (each track)

(Gain & High Freq. E. Q.)

③ DET-4 ORV3 (each track)

(Phase E. Q.)

- 4 DET-4 ORV4 (each track)
 (Detect Level)
- (3) TAPE SPEED: LOW

Perform monitor recording on C1C-DAQ. Perform a sync insert record to make a self-recorded tape. Make sure the playback overwrite tape is recorded longer than the error measurement time. Play back at VARI about -25% on FS = 44.056kHz. During playback, adjust the location listed below in such a way as to minimize the error rate on each track read out by error meter.

1. PA-57 RV3: Adjust ORV3 a little to minimize the ClC error and the cross point jitter.

CRC error meter SW setting:

AUTO/MANUAL : AUTO

COUNT PERIOD: MIN.

 DET-4 RV1: Adjust ORV1 to minimize the CRC error and cross point jitter.

CRC error meter SW setting:

AUTO/MANUAL : AUTO

COUNT PERIOD: SECOND POSITION FROM MIN.

3. DET-4 RV2: Adjust ORV2 to minimize the CRC error and crosspoint offset.

CRC error meter setting:

AUTO/MANUAL : AUTO

COUNT PERIOD: MAX.

4. Repeat 2 to 3 to get minimum CRC error.

TARGET: Under level A (If you cannot reach to level A, that is O.K.)

- 5. Adjustment location
 - (1) PA-57 ORV3 (High Freq. E. Q.)
 - (2) DET-4 ORV1 (Phase E. Q.)
 - (3) DET-4 ORV2 (Detect Level)
- (4) Final error rate checking
 - 1. SW setting Fs: 48kHz

TAPE SPEED: HI & LOW on

MCK board

TEST NORMAL: NORMAL on

REC board

2. HIGH SPEED

Perform initial monitor recording, overwrite in sync insert to make a self-recorded playback tape. The overwrite tape should be recorded longer than the error measurement time. Play back at normal speed and \$\pmu12.5\%\$ Vari speed.

CRC error meter SW setting:

AUTO/MANUAL : MANUAL

COUNT PERIOD: MAX.

- (A) Push [START] button of CRC error
 meter.
- (B) When light at the center of [START] button is off, take error count reading.
- 3. LOW SPEED

Same procedure as high speed except tape speed setting.

Perform the above step (3) on low speed.

4. Check that the LED level of CRC error meter is level B or less.

4-5. TPC-1 BOARD ADJUSTMENT

This section explains how to adjust the digital input/output level, balance control, and shuttle offset.

4-5-1. Digital Input/Output Level and Balance Control Adjustment

Equipment required

Test pattern generator jig

Connections

Insert the test pattern generator jig in place of the DAD-1 board.

Switch and control settings

Monitor housing /DIGITAL LEVEL

BALANCE CONTROL
SW : INPUT
REF MARKER : -20dB
SCALE SW : 0.2dB
MONITOR SIGNAL SELECT

: INPUT

Test pattern generator jig $\begin{pmatrix} \text{LEVEL} & : -20 \text{dB} \\ \text{CH1, 2 EN} & : \text{ON} \\ \text{FREQUENCY} & : 1 \text{kHz} \end{pmatrix}$

Adjustment locations

RV3 and 5

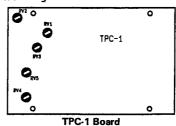
Adjustment procedure

Set the Digital audio LEVEL control and Digital audio BALANCE control on the monitor housing to their center positions.

Set the DIGITAL CONTROL selector on the

Set the DIGITAL CONTROL selector on the monitor housing to INPUT.

- Adjust ORV5 so that the CH1 level and CH2 level shown on the digital level meter are the same.
- Adjust ②RV3 to give a level of -20dB on the digital level meter.



4-5-2. Shuttle Dial Offset Adjustment

Tape

Work tape

Specification:

Internal shuttle mode

When the unit is switched from stop to shuttle mode, the tape must not move.

Adjustment location ORV2

Specification:

External shuttle mode

Connect a lkHz, rectangular wave TTL-level signal with a 50% duty cycle to Pin No.34 (Shuttle PWM Input) of the 50-pin Parallel-Remote connector. When the unit is switched from stop to shuttle mode, the tape must not move.

Adjustment location

⊘RV1

4-5-3. TPC-1 Board AD Offset Adjustment

Equipment required

Oscilloscope or digital voltmeter

Pin 1 of IC C5 should be +5V.

Adjustment location

⊘RV4

4-6. DR-54 BOARD ADJUSTMENT

4-6-1. Tension Adjustment

See Section 3-5-3 "Tension adjustment".

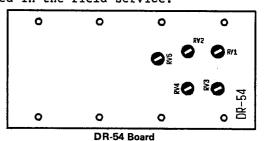
Adjustment location

ORV1 and 2

4-6-2. Offset Adjustment

The offset adjustment for the three drive amps has been completed with the manufacturing adjustment tool.

Note: These ORV3, 4 and 5 should not be turned in the field service.

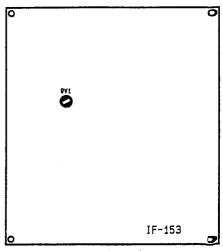


4-7. IF-153 BOARD ADJUSTMENT

4-7-1. Time Code Output Level Adjustment

Thread a tape and play back it. Connect a 600 ohms resistor to the balance output and read off the voltage across that resistor with the oscilloscope.

Specification: 2.4Vp-p±0.1V



IF-153 Board

4-8. CTL-1 BOARD ADJUSTMENT

See Section 3-10-2 "CTL board Servo gain and phase adjustment and check".

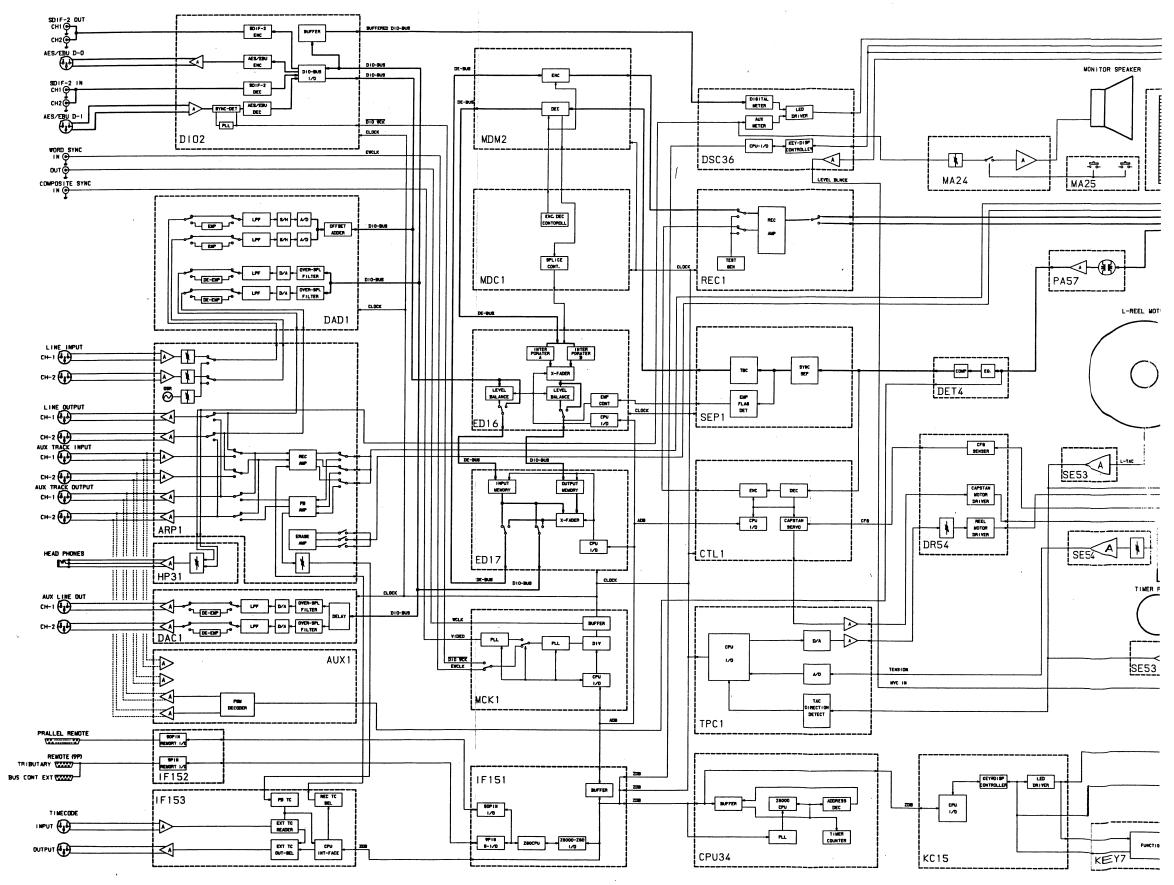
4-9. SE-54 BOARD ADJUSTMENT

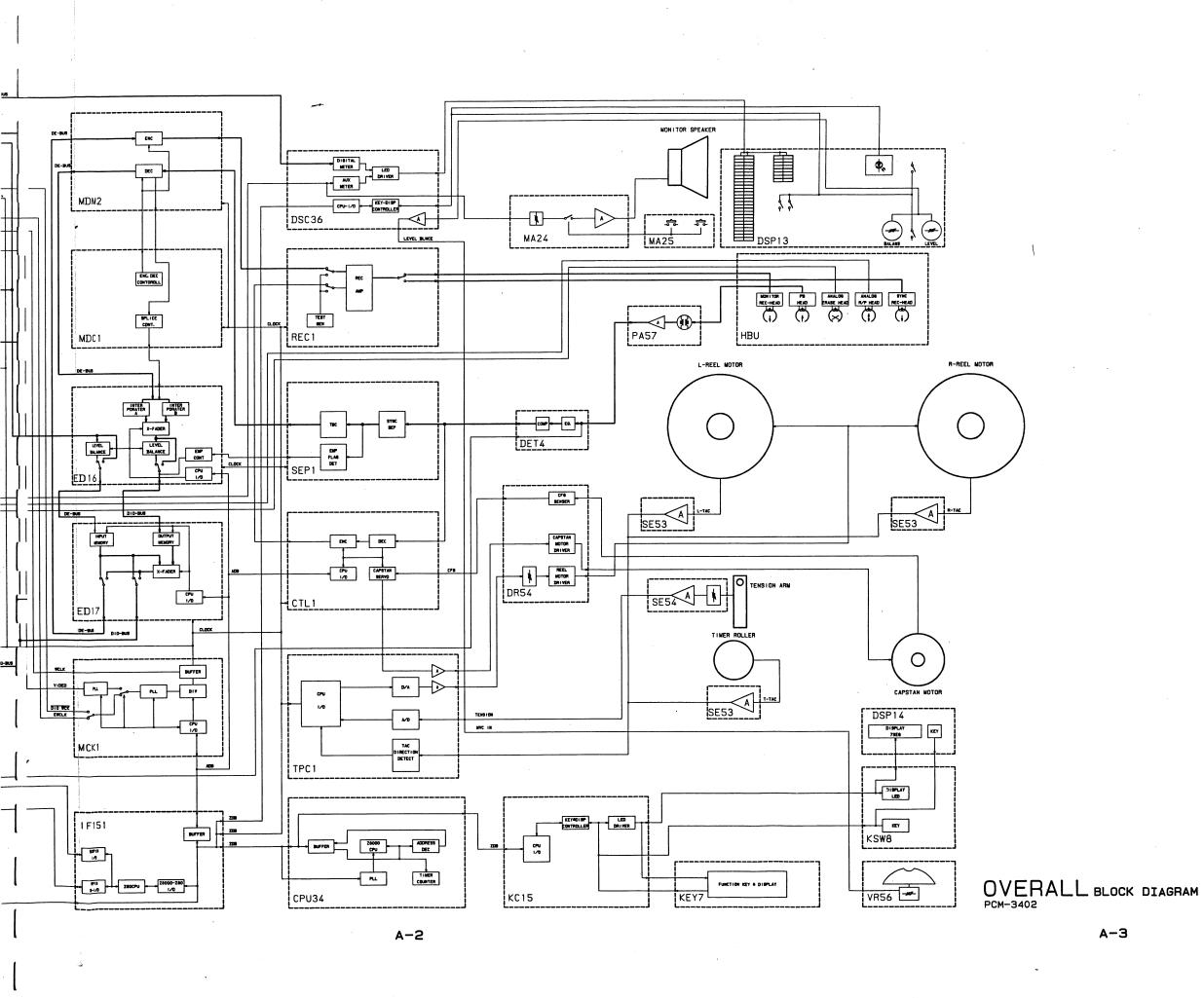
See Section 3-5-2 "Tension arm adjustment".

SECTION A

BLOCK DIAGRAMS

OVERALL BLOCK DIAGRAM

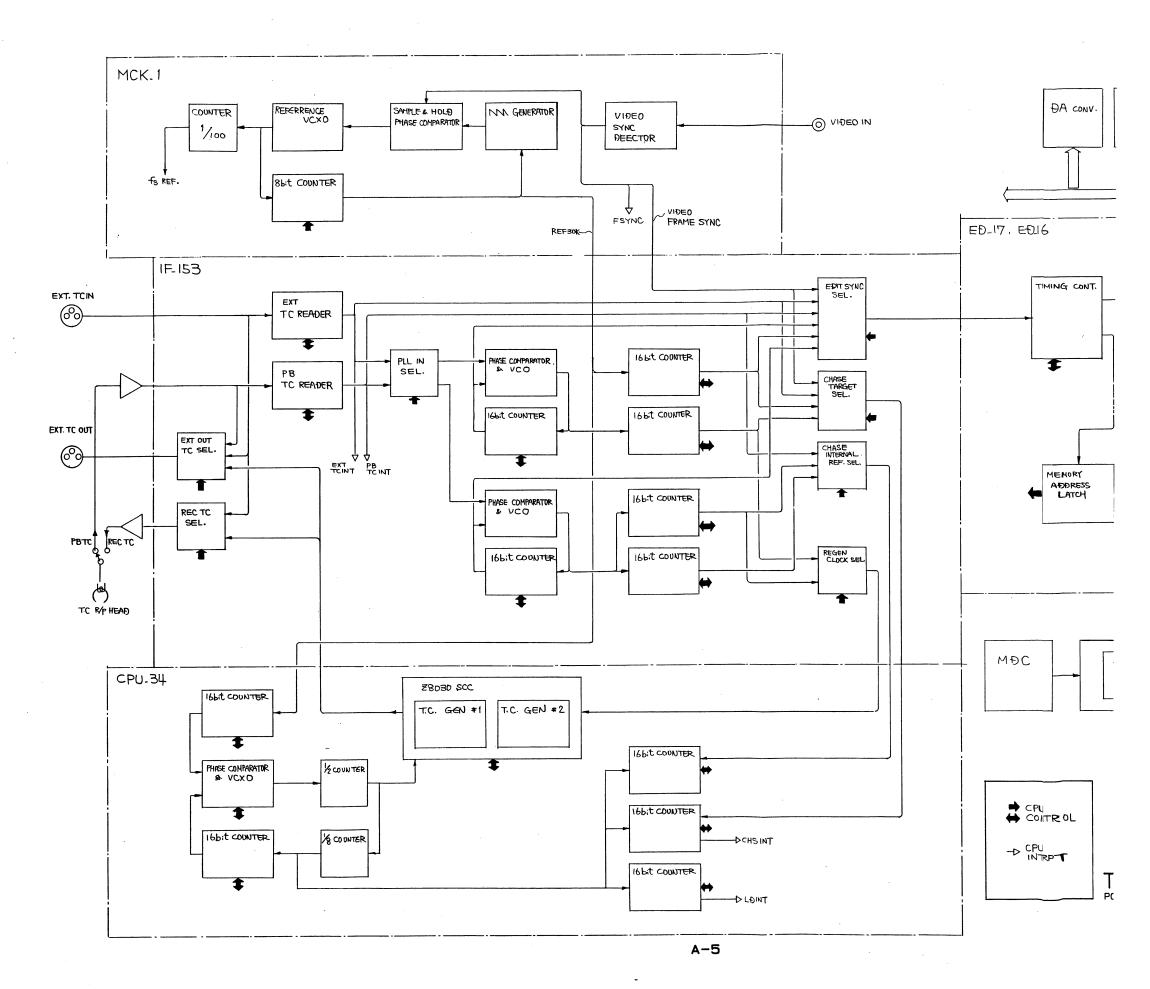


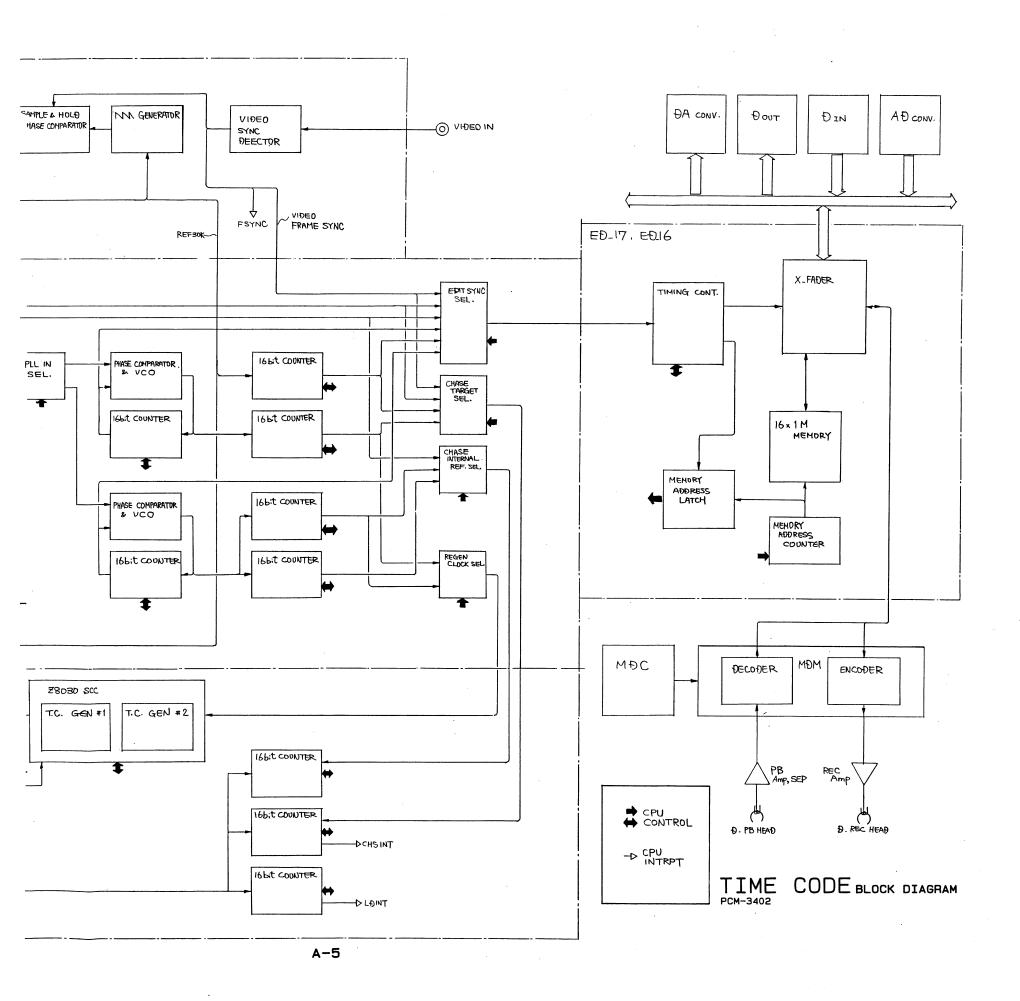


E ALL

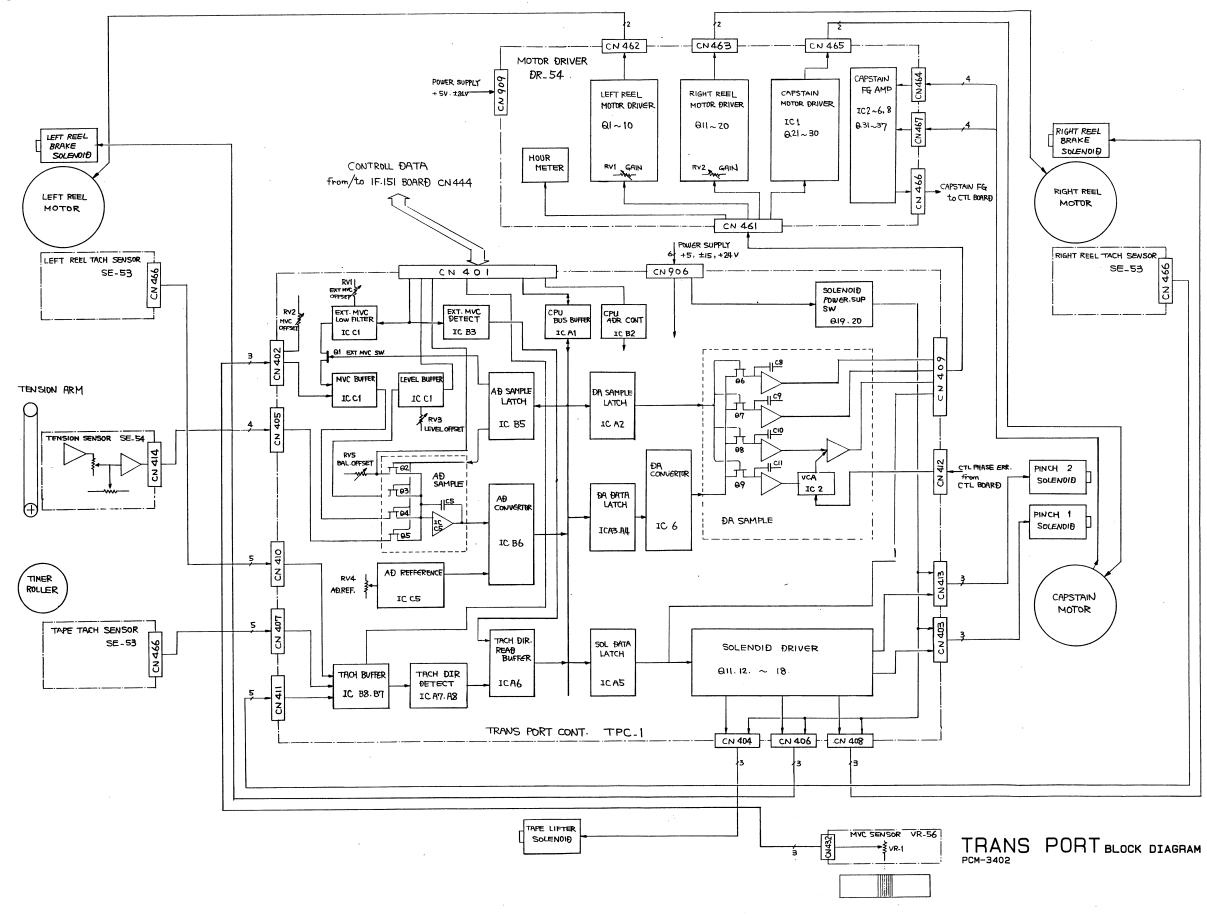
OVERALL BLOCK DIAGRAM

TIME CODE BLOCK DIAGRAM

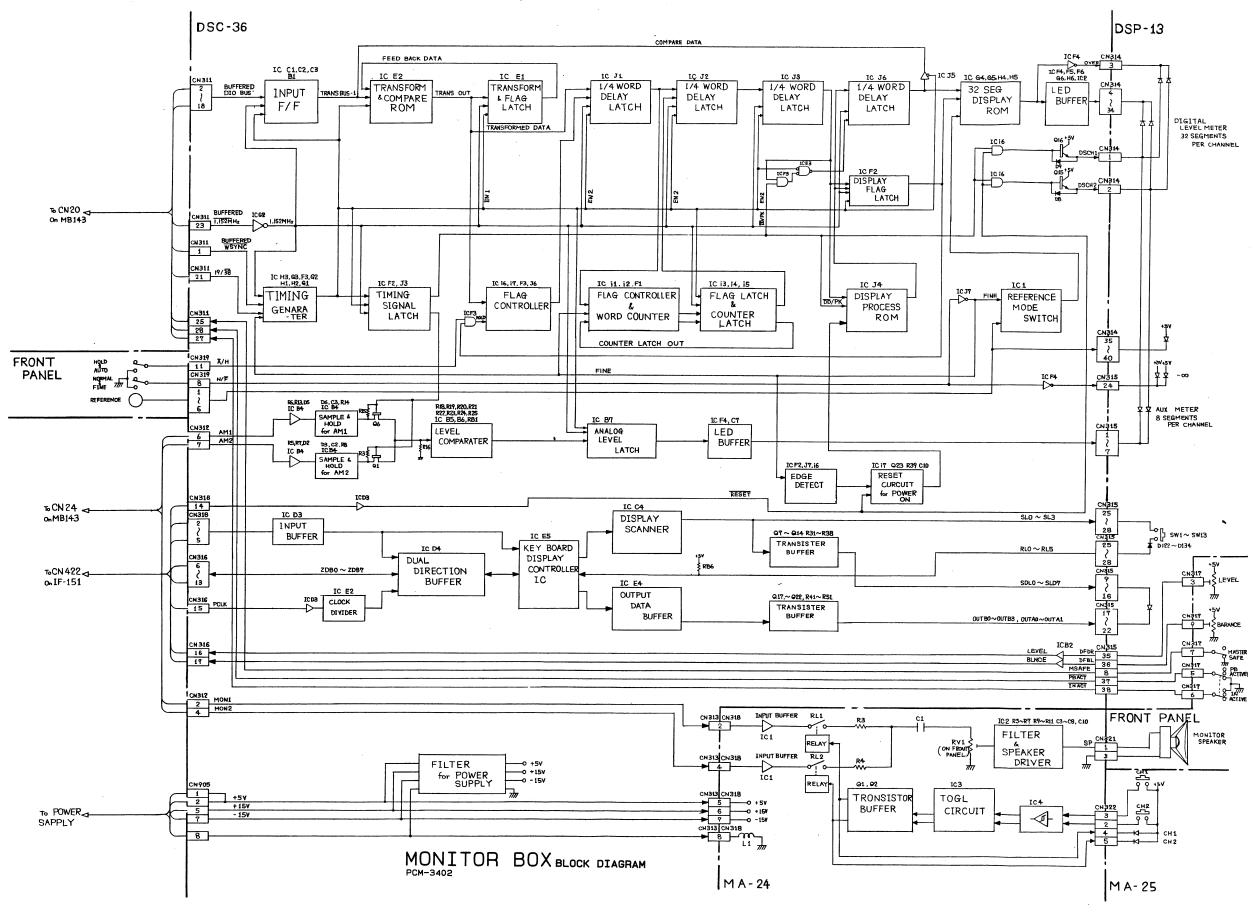




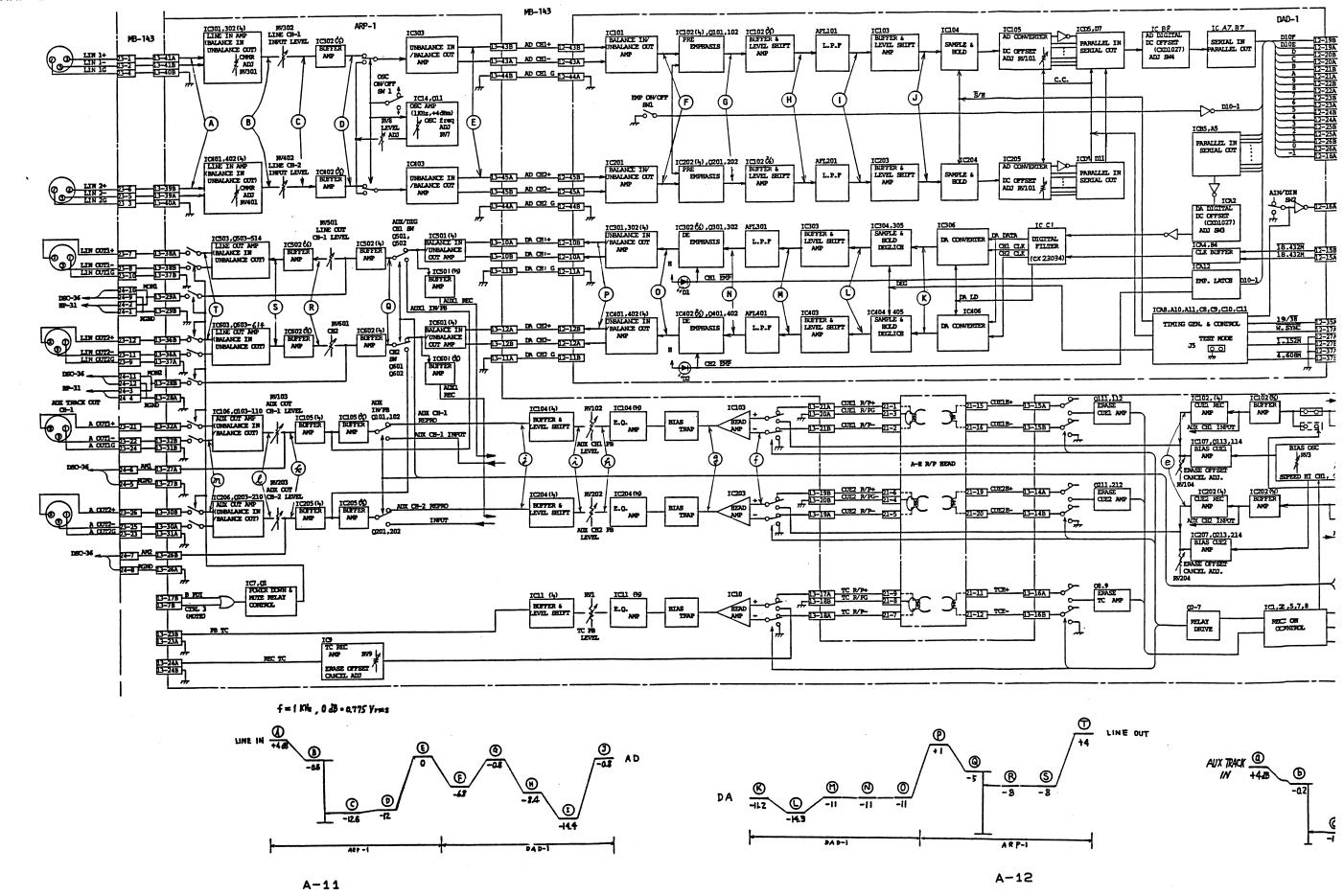
TRANS PORT BLOCK DIAGRAM

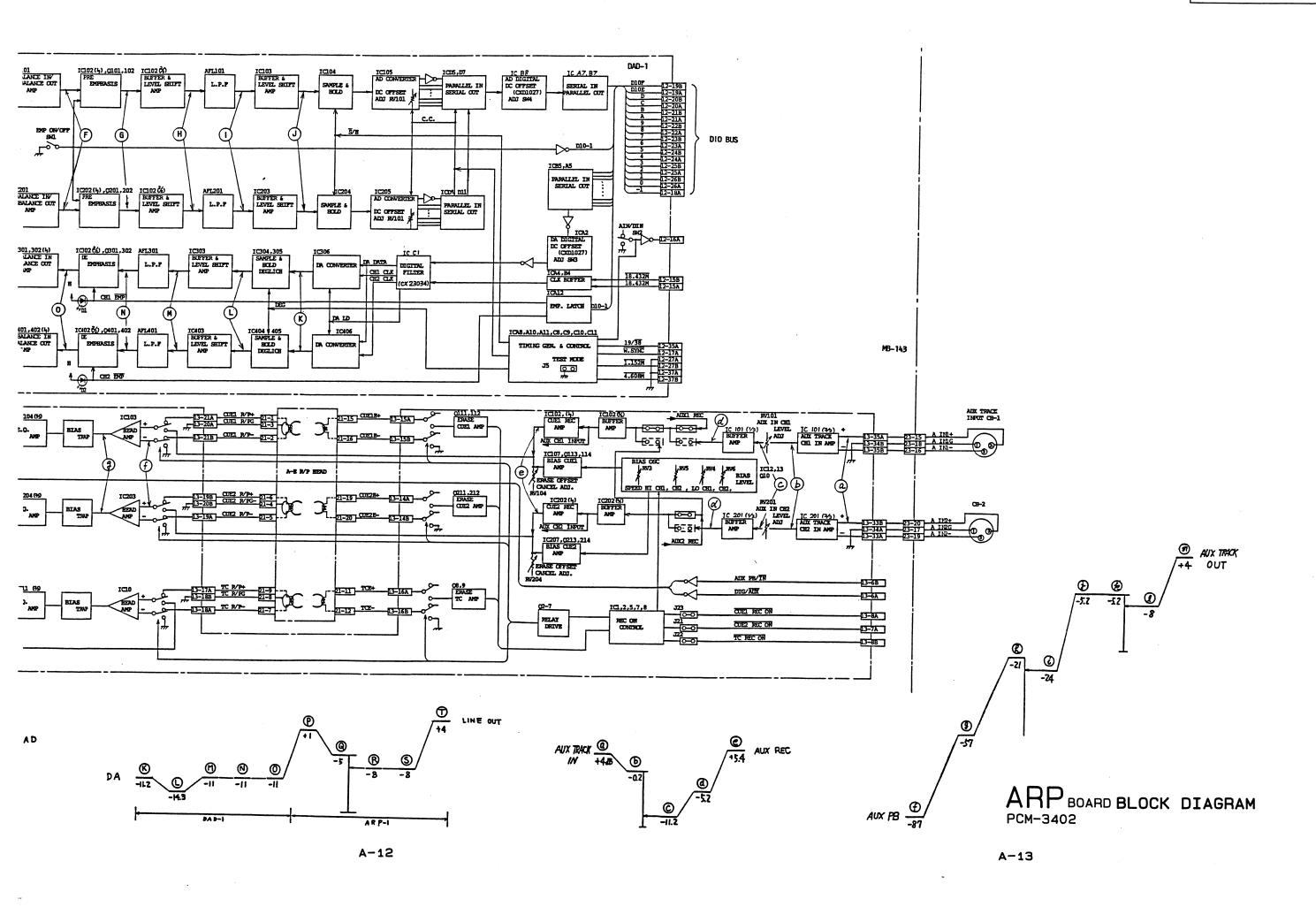


MONITOR BOX BLOCK DIAGRAM

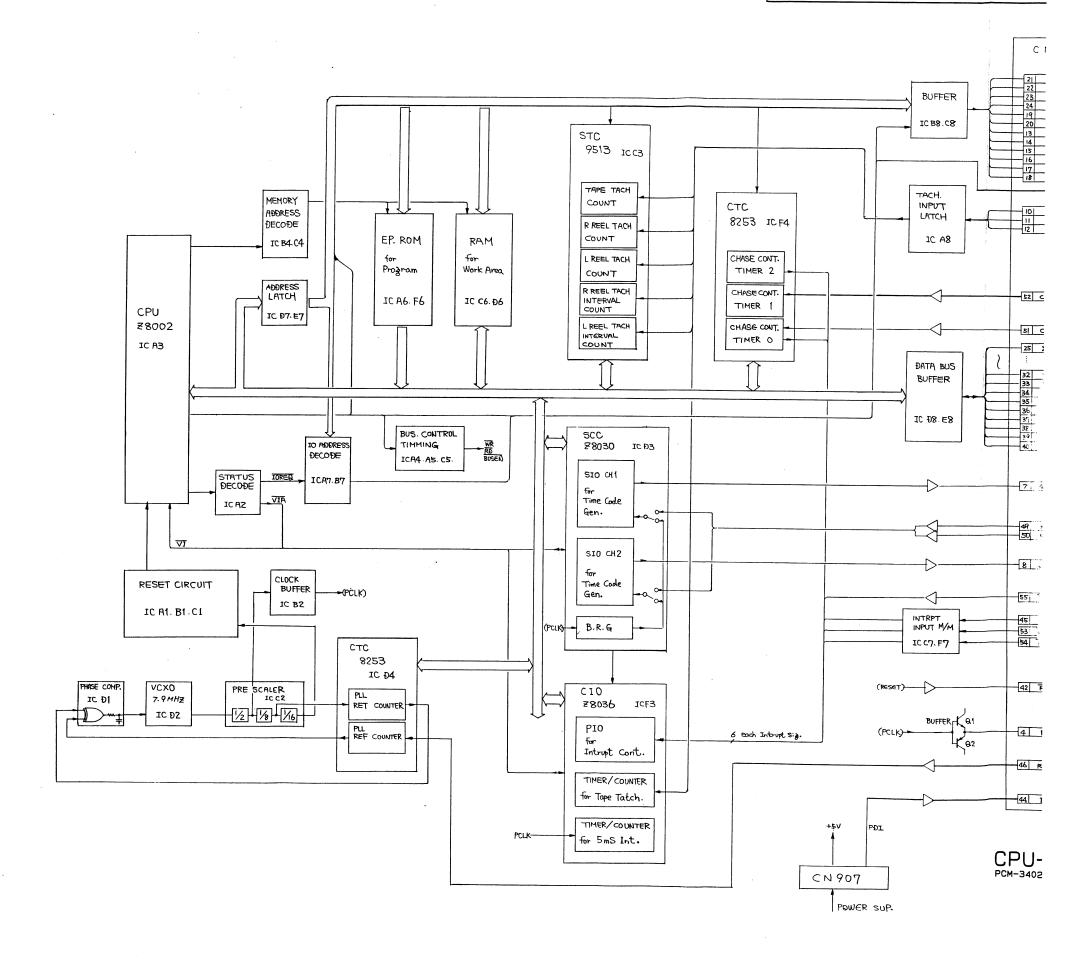


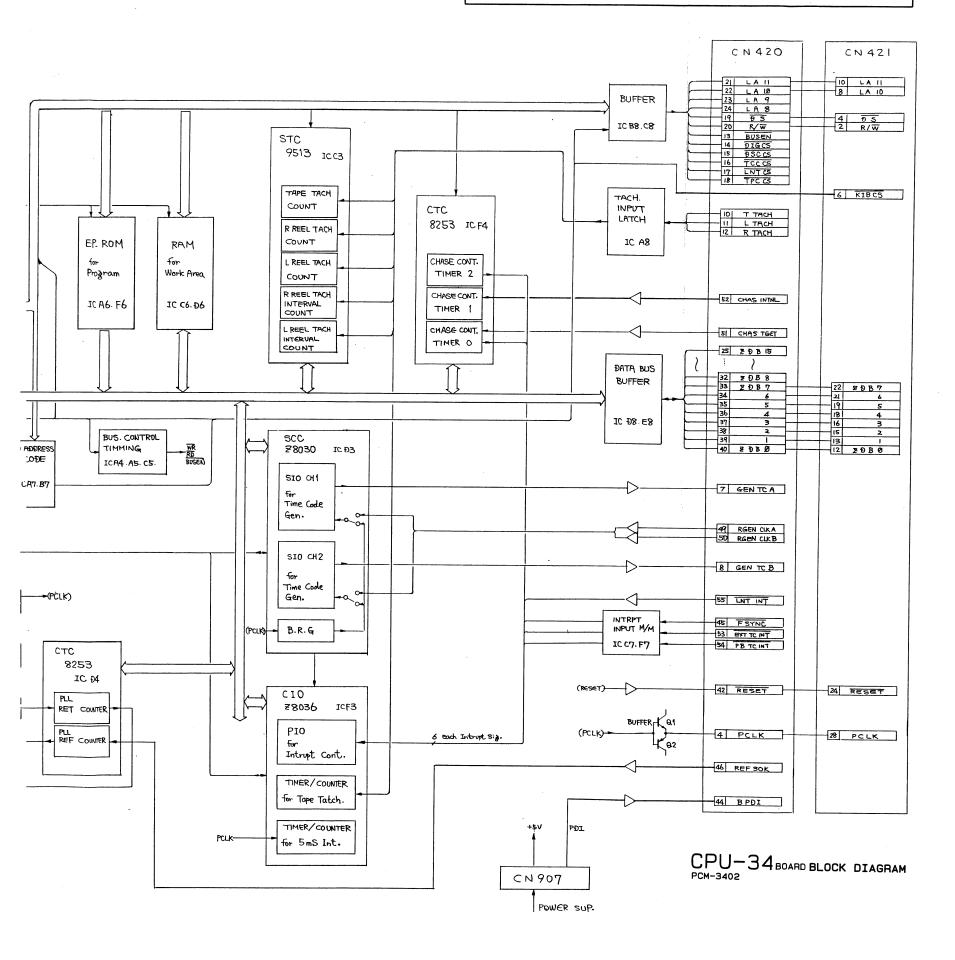




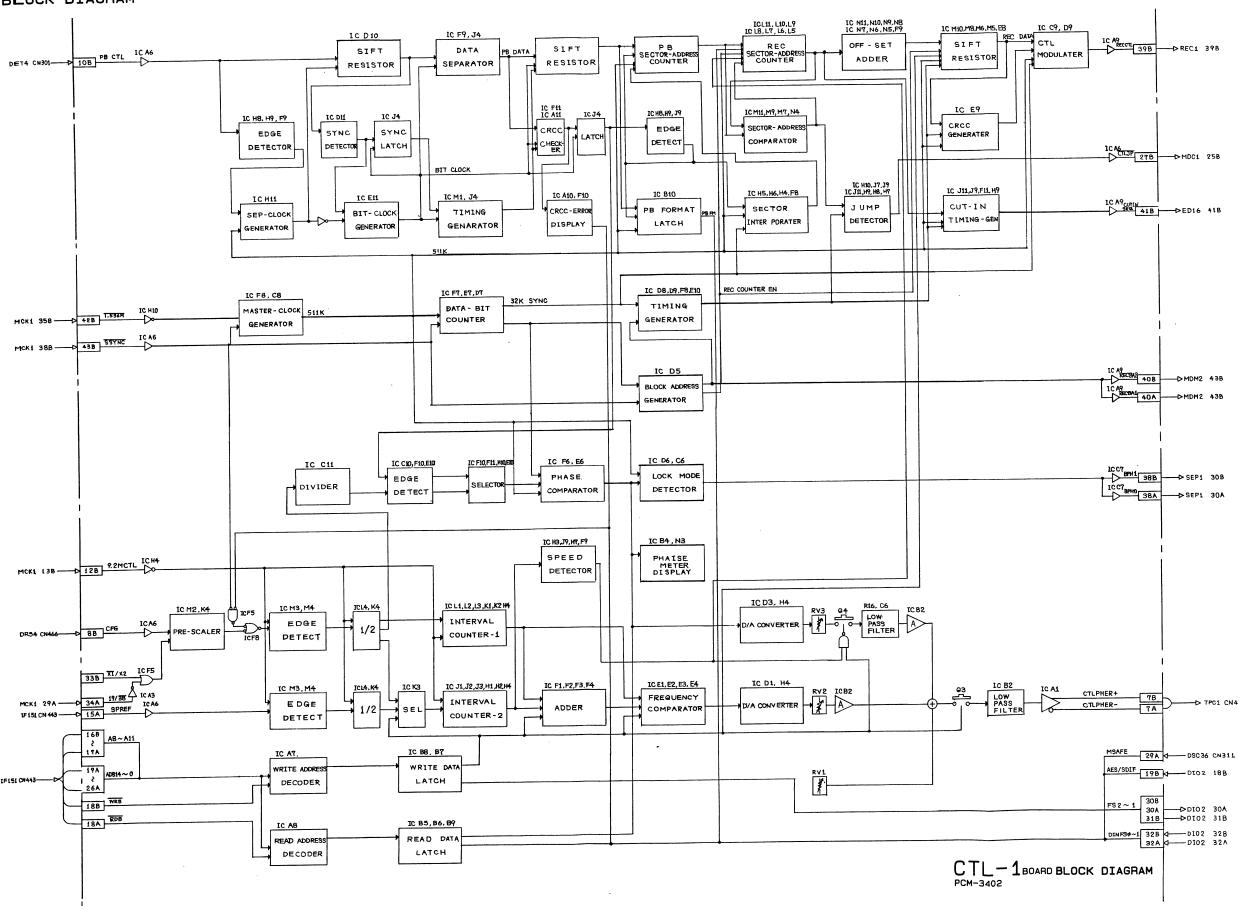


CPU-34 BLOCK DIAGRAM

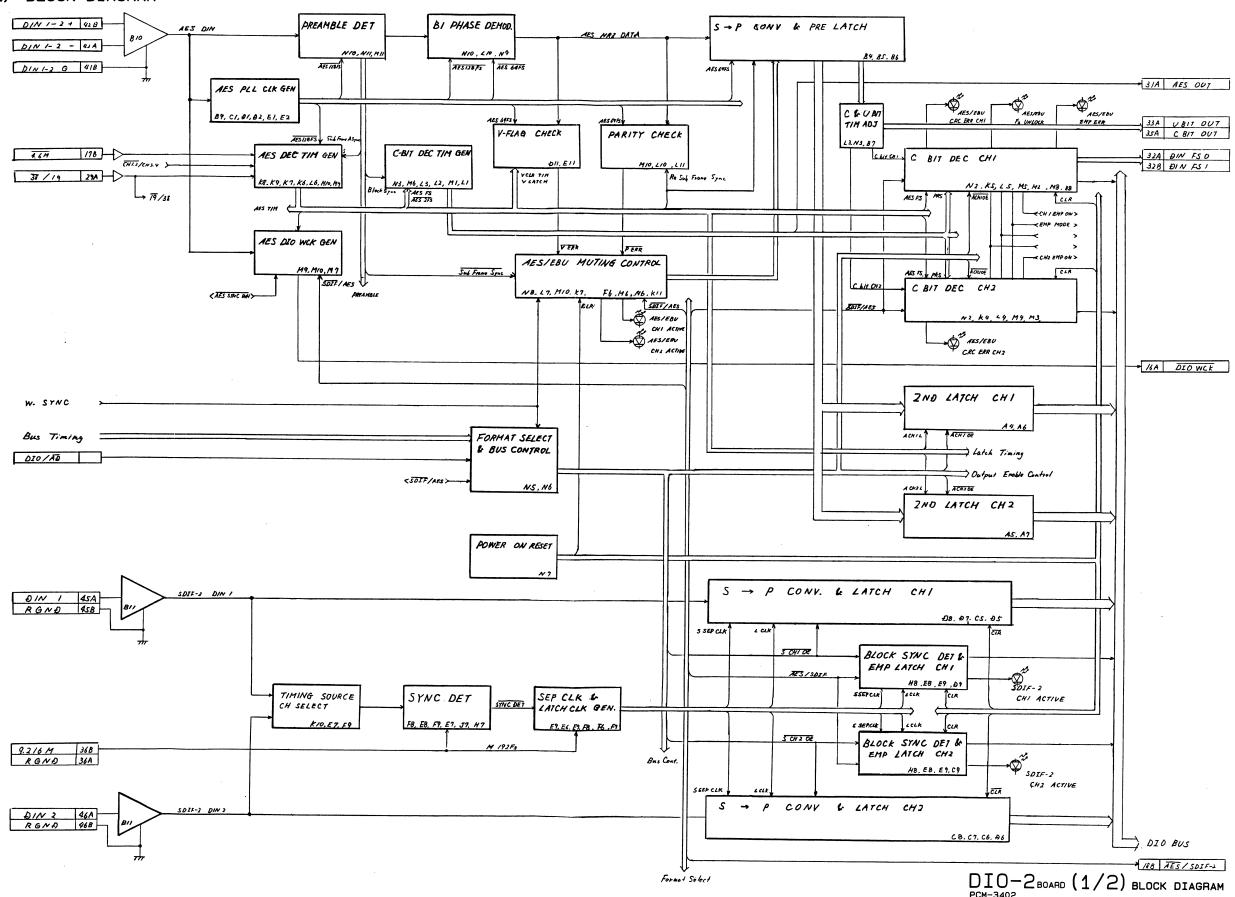


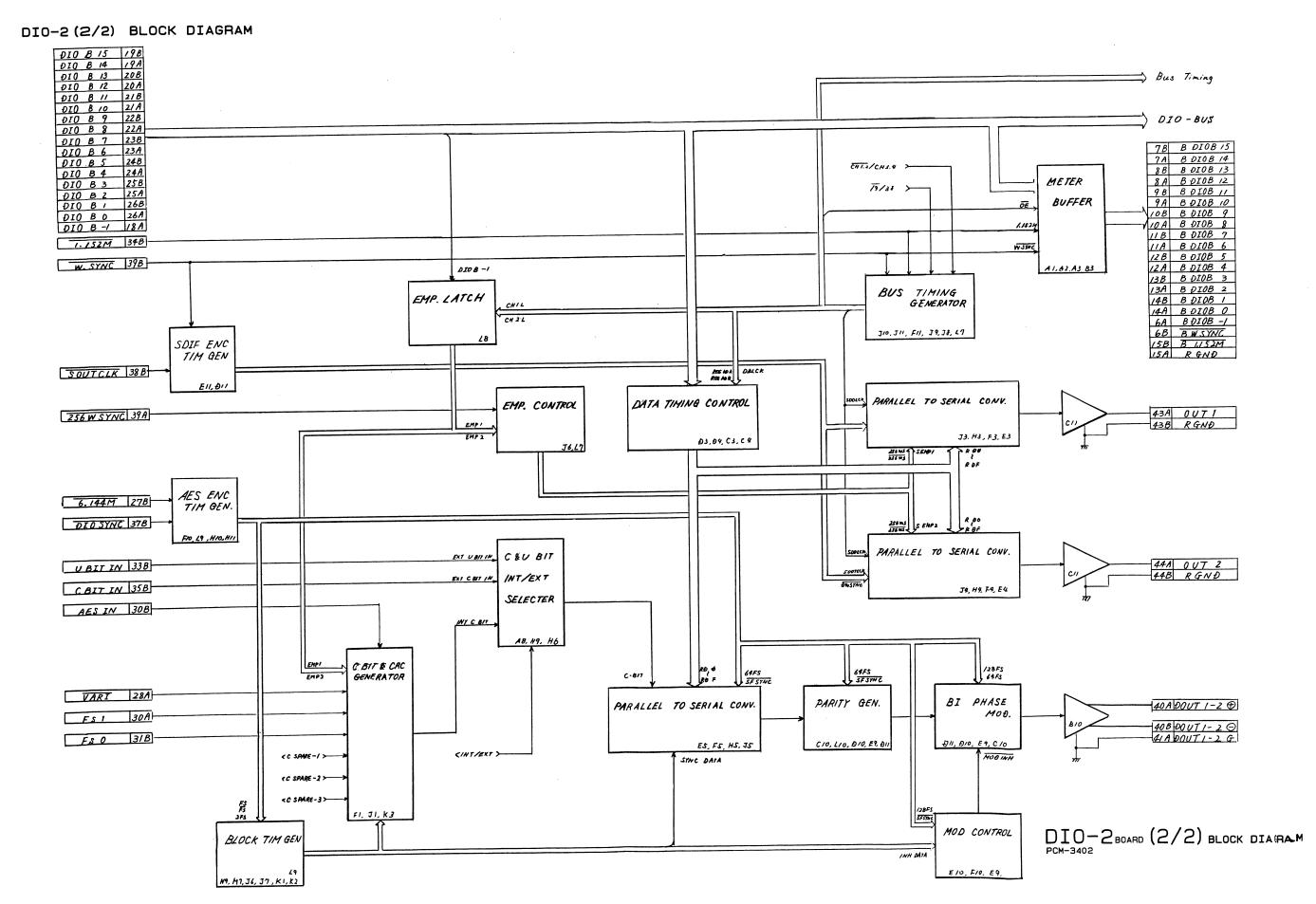


CTL-1 BLOCK DIAGRAM

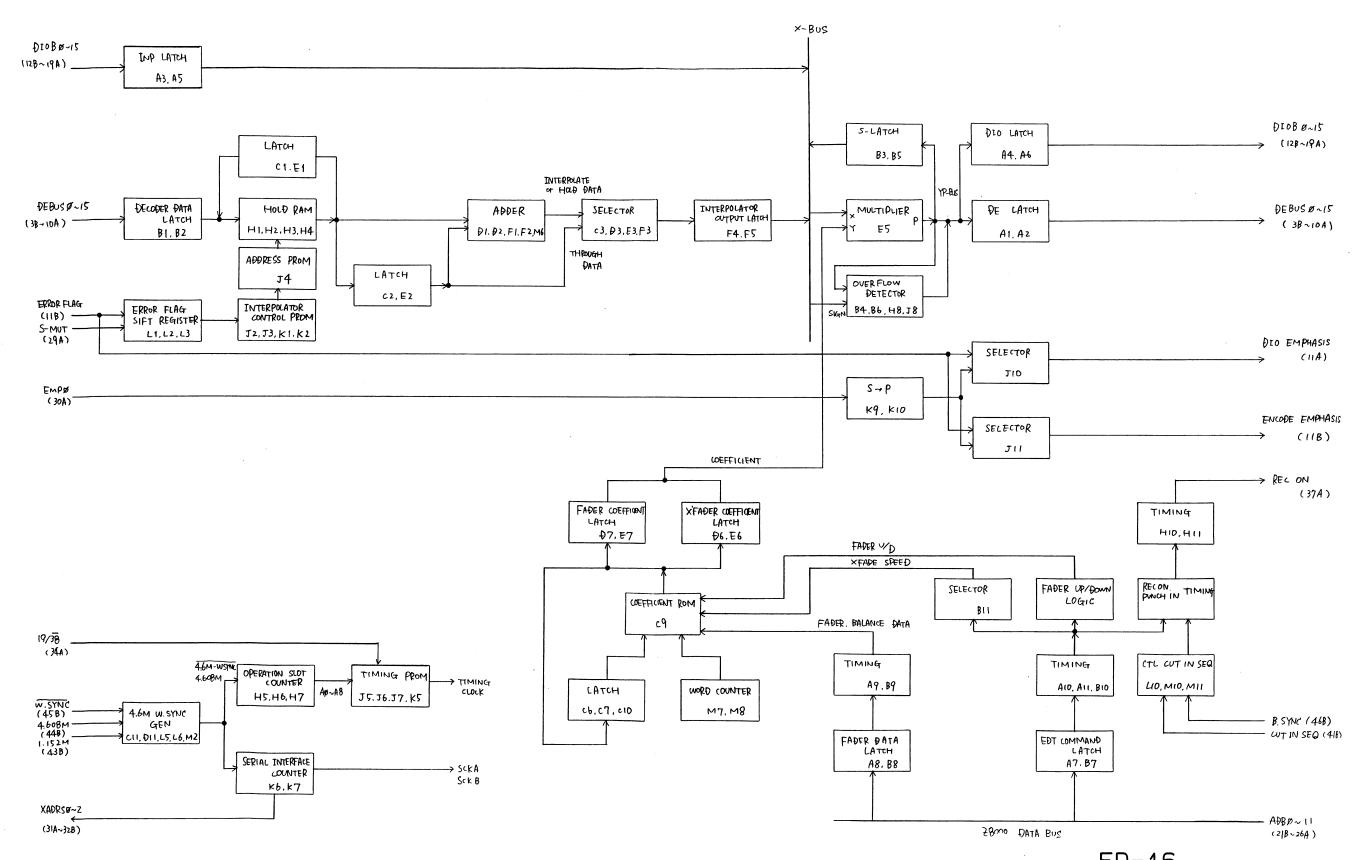


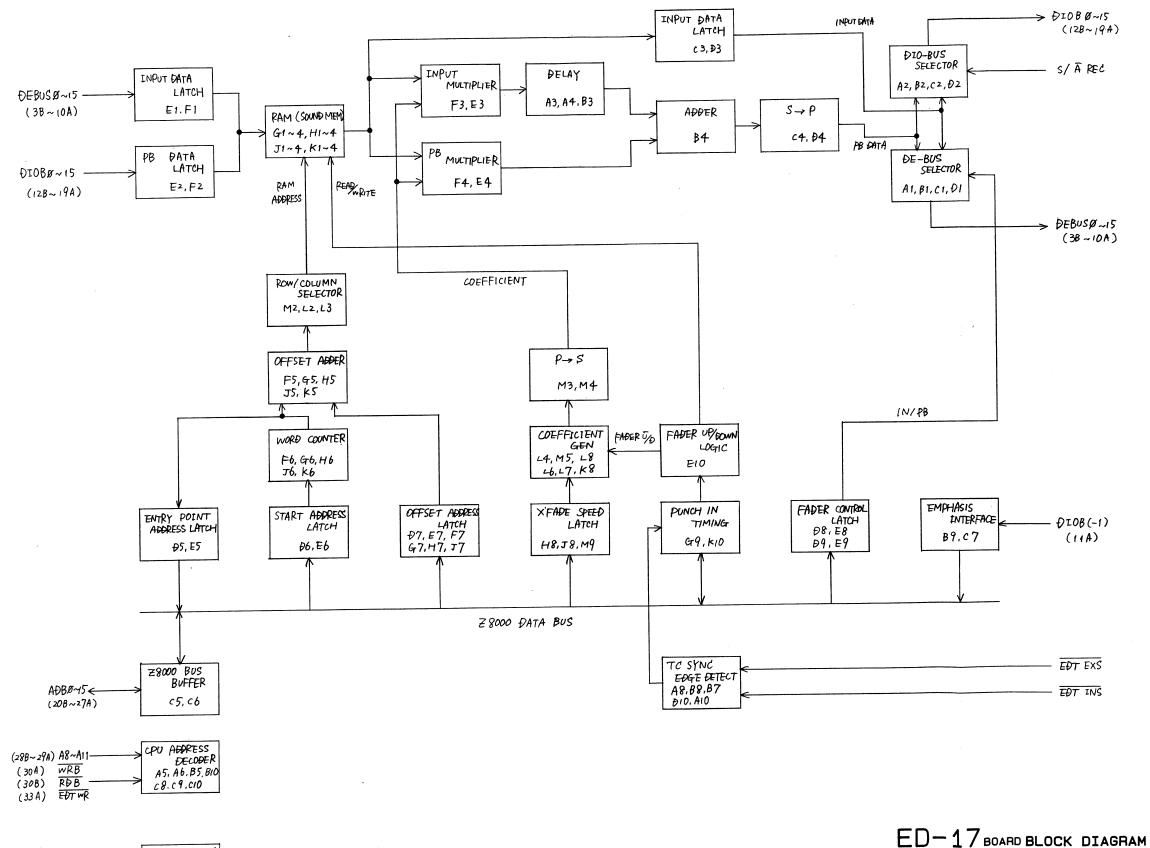






ED-16 BLOCK DIAGRAM





PCM-3402

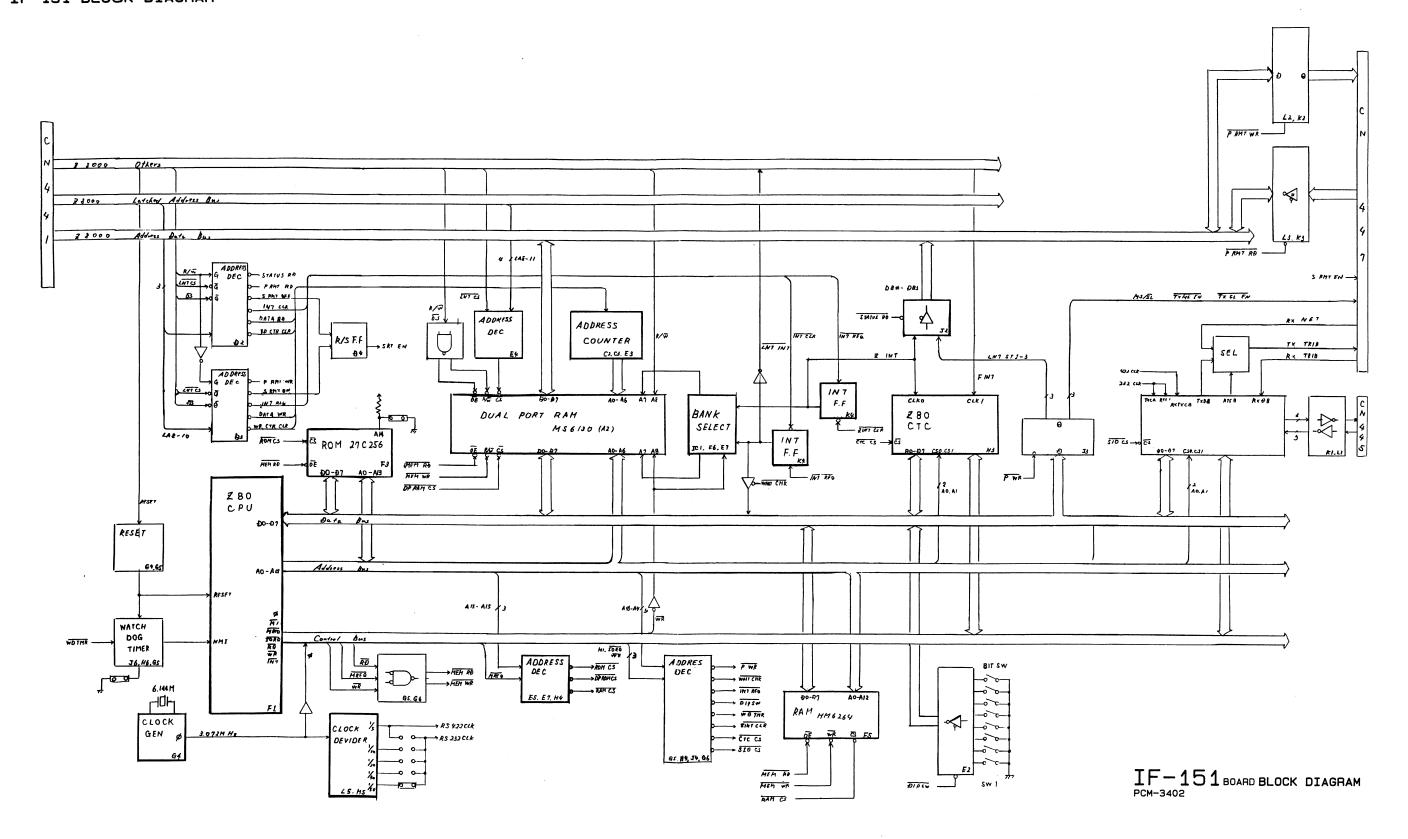
TIMING GEN

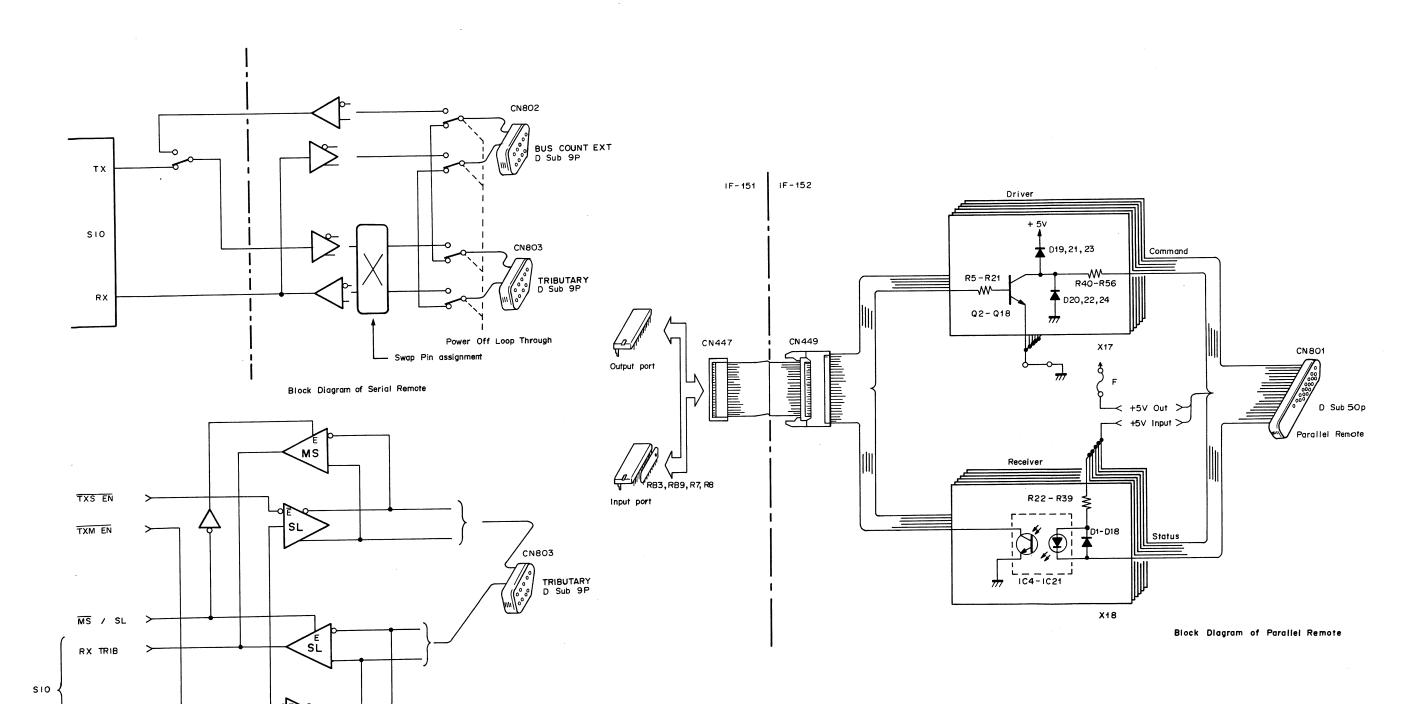
A9,A10,G10,F10 K7,J10,H10,J9 H9

(45B) W.SYNC-

(44B) 4.608M -(43B) 1.152M -(34B) 19/38 -

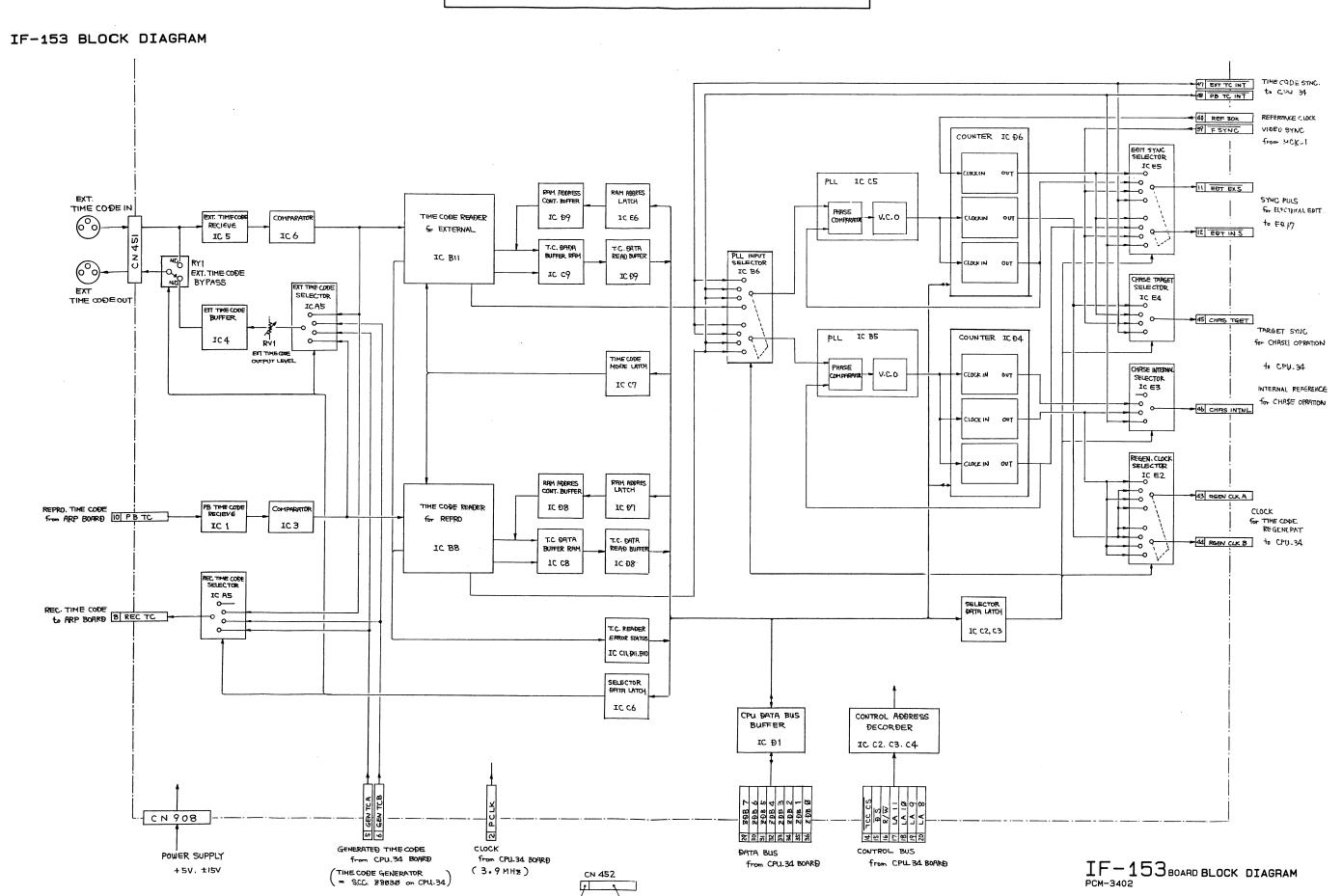
IF-151 BLOCK DIAGRAM

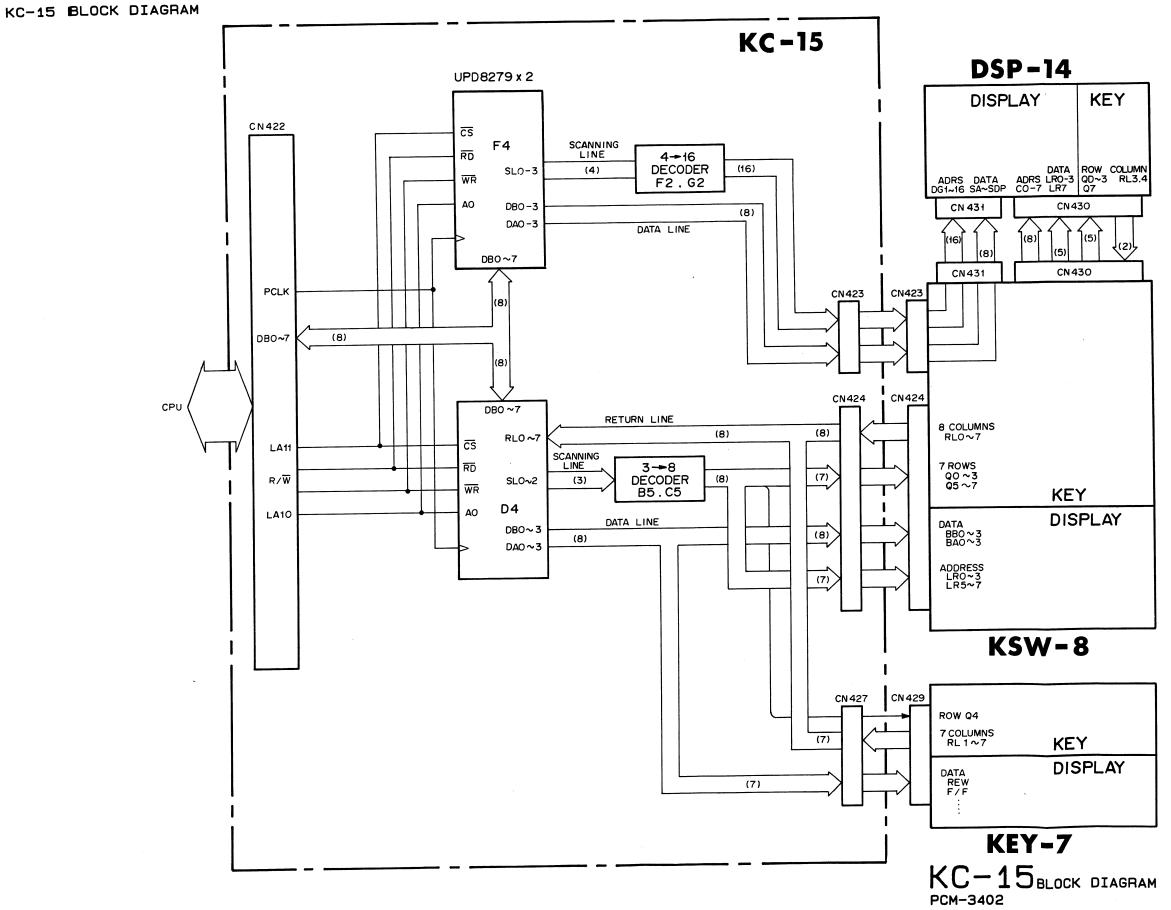




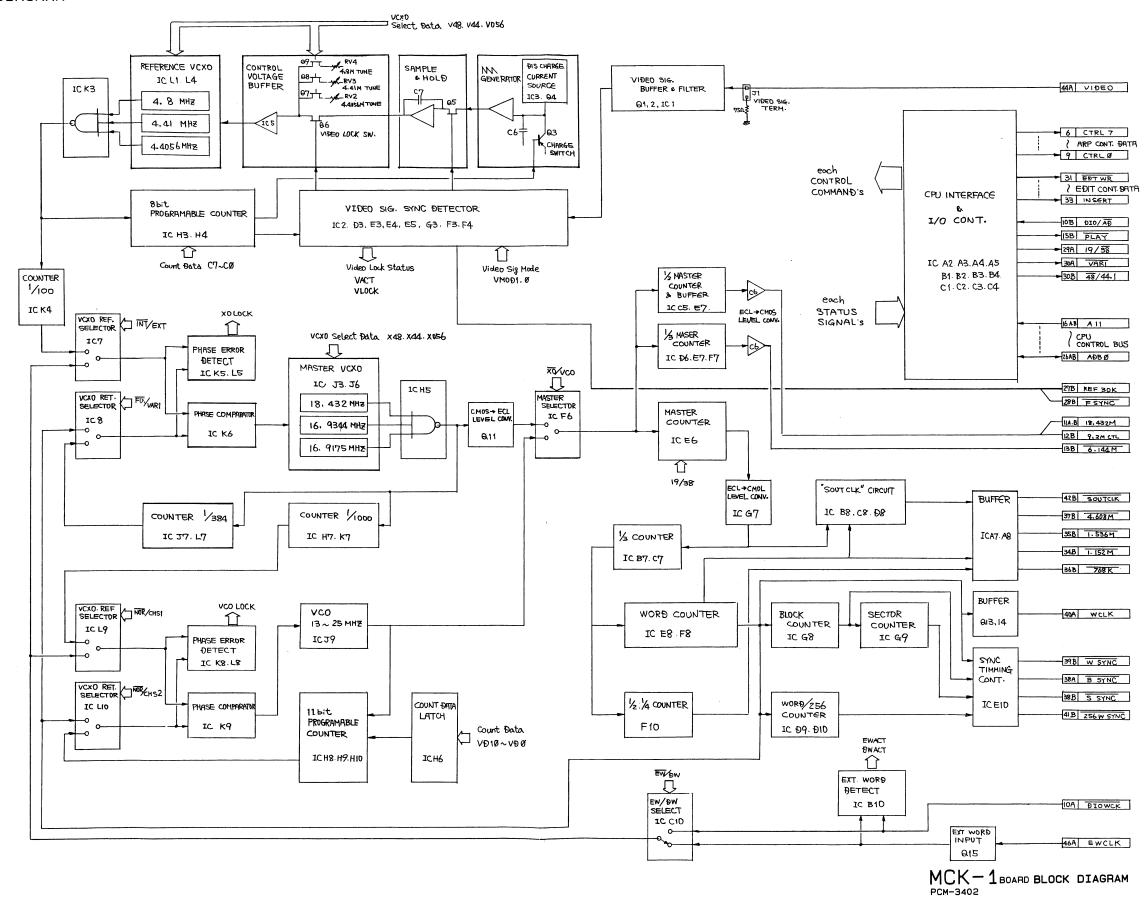
IF-152 BOARD BLOCK DIAGRAM

Master / Slave Selecter

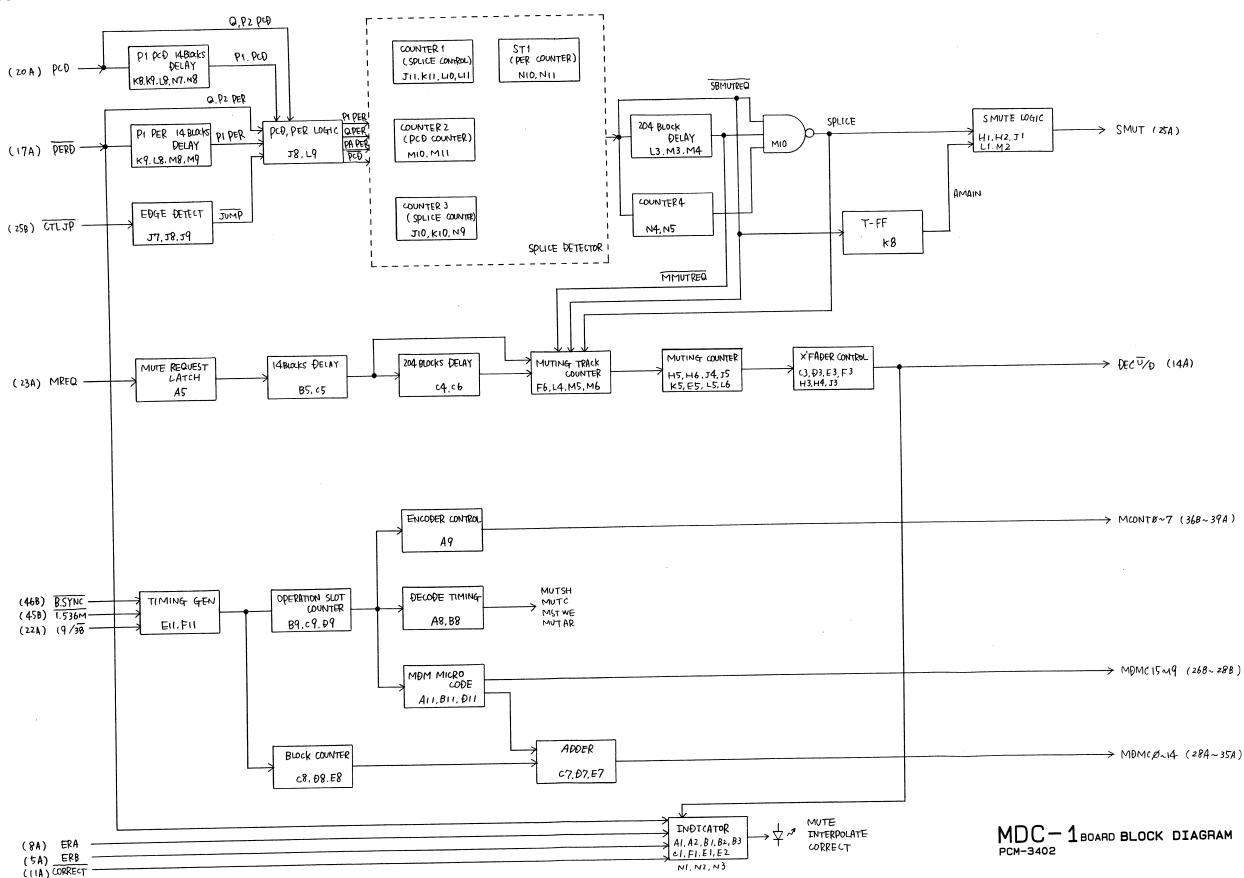


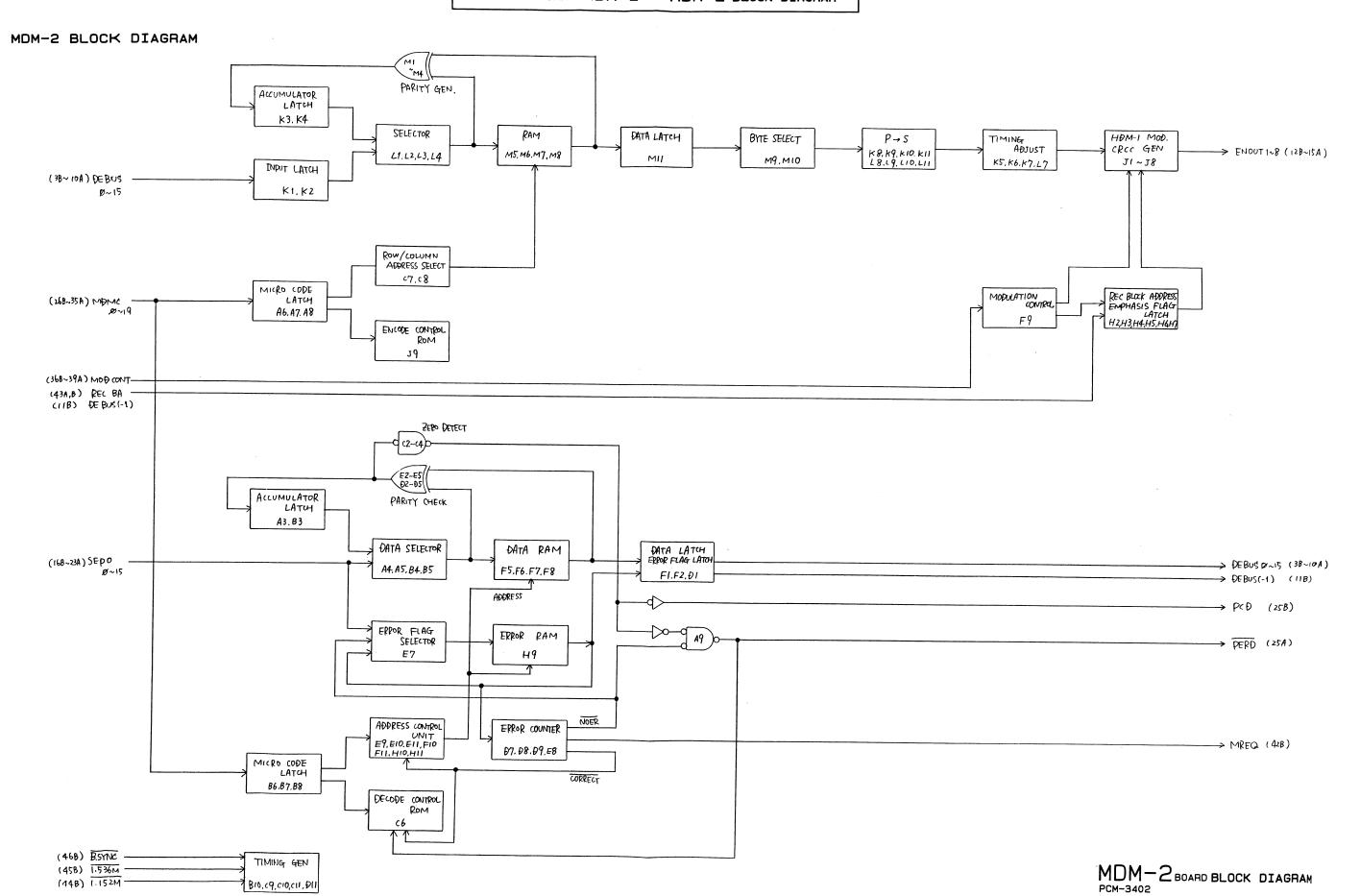


MCK-1 BLOCK DIAGRAM

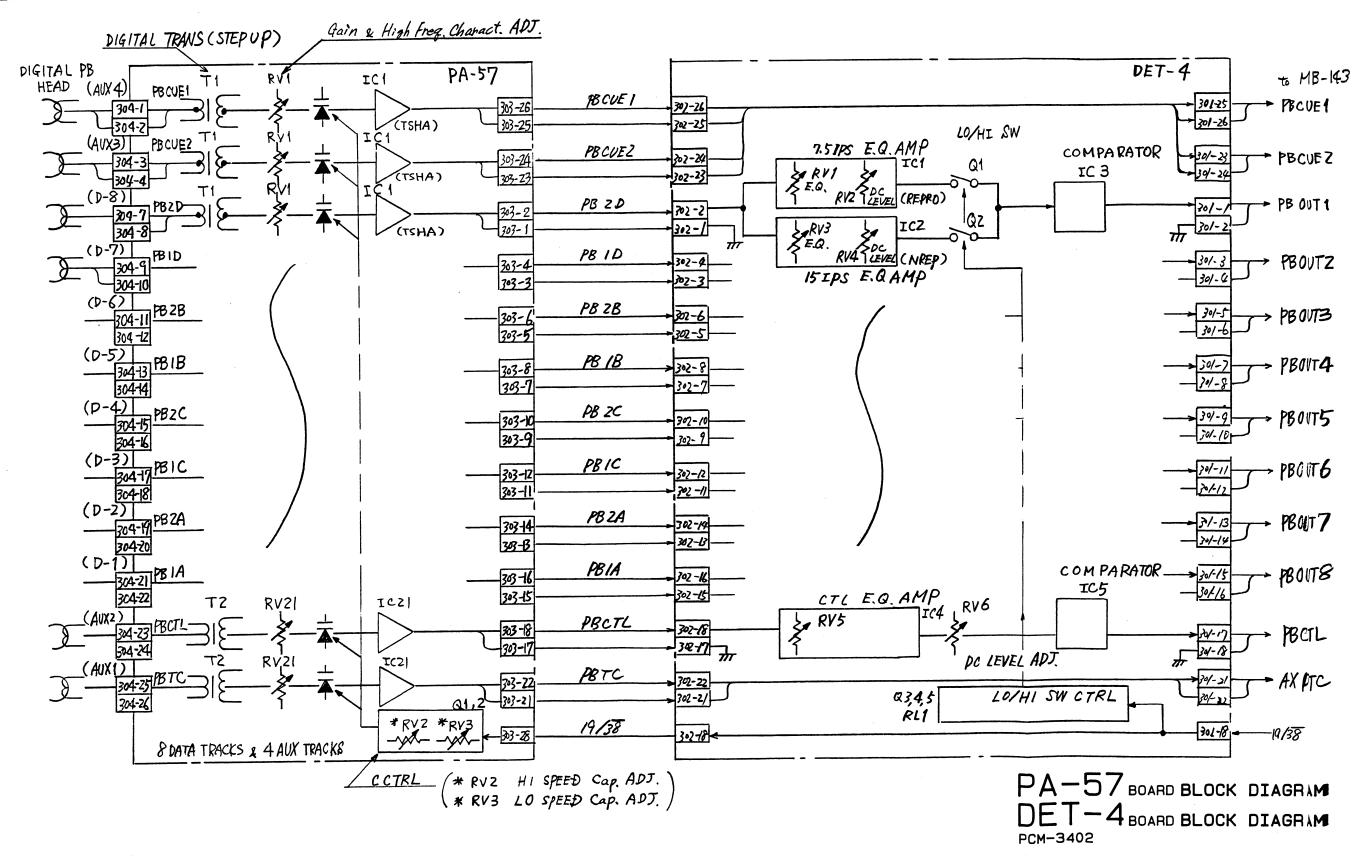


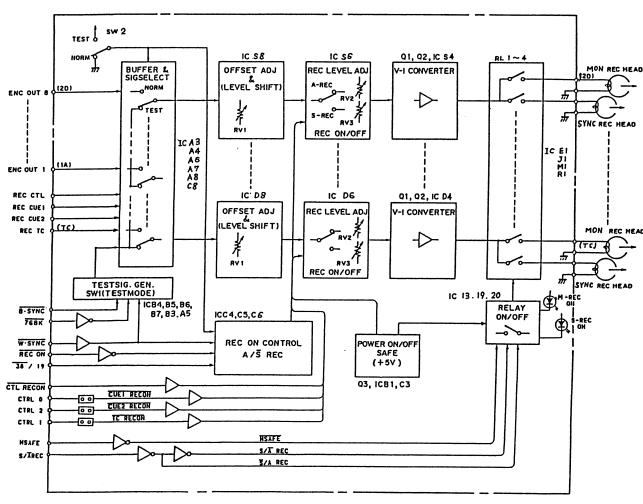
MDC-1 BLOCK DIAGRAM



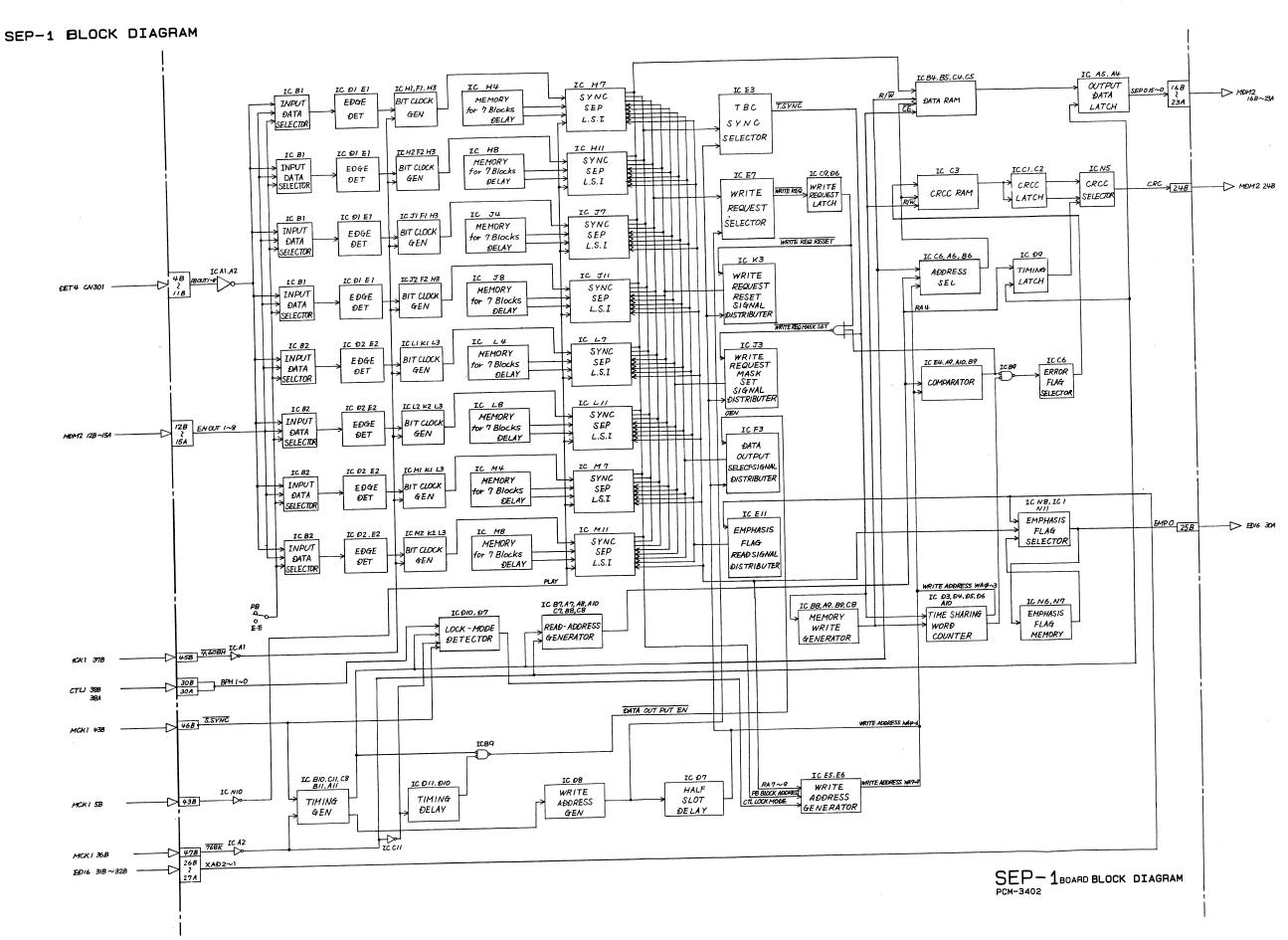


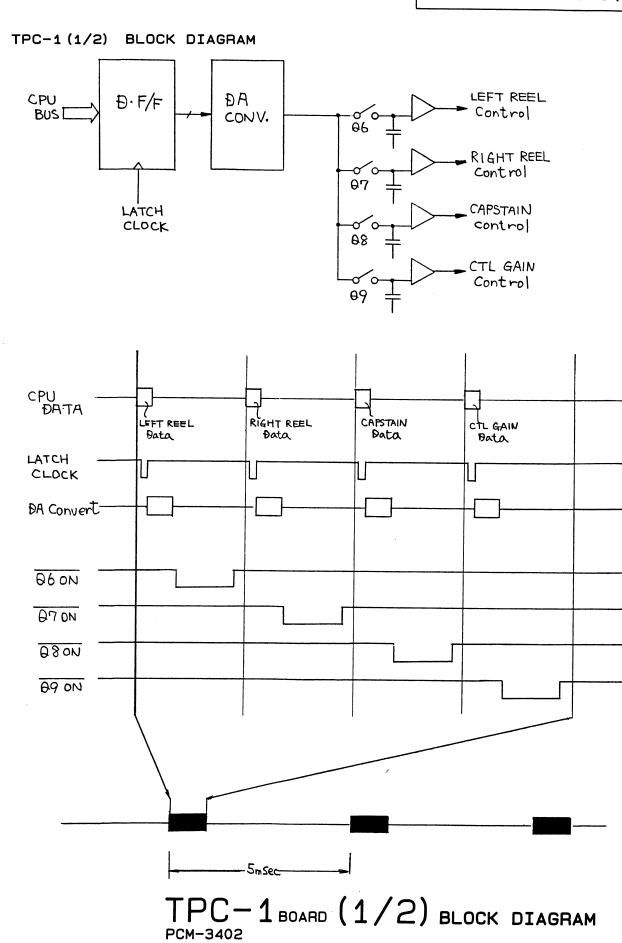
PA-57 BLOCK DIAGRAM DET-4 BLOCK DIAGRAM





REC BOARD BLOCK DIAGRAM PCM-3402

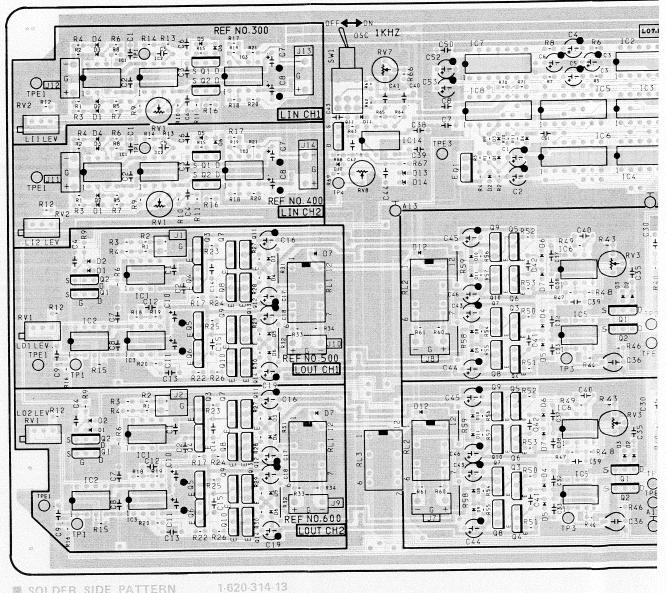




TPC-1(2/2) BLOCK DIAGRAM AÐ CONV. BALANCE VR → CPU BUS cs宁 LEVEL VR MVC VR 64 TENSION SENSOR -o′o-65 SE. 54 - 5mSec-95 ON BSON Q3 ON 840N AD CONV. BALANCE Convert TENSION LEVEL MVC Convert Convert Convert CPU AB Đata Read . LEVÉL Read TENSION Read MVC Read BALANCE Read

TPC-1 BOARD (2/2) BLOCK DIAGRAM

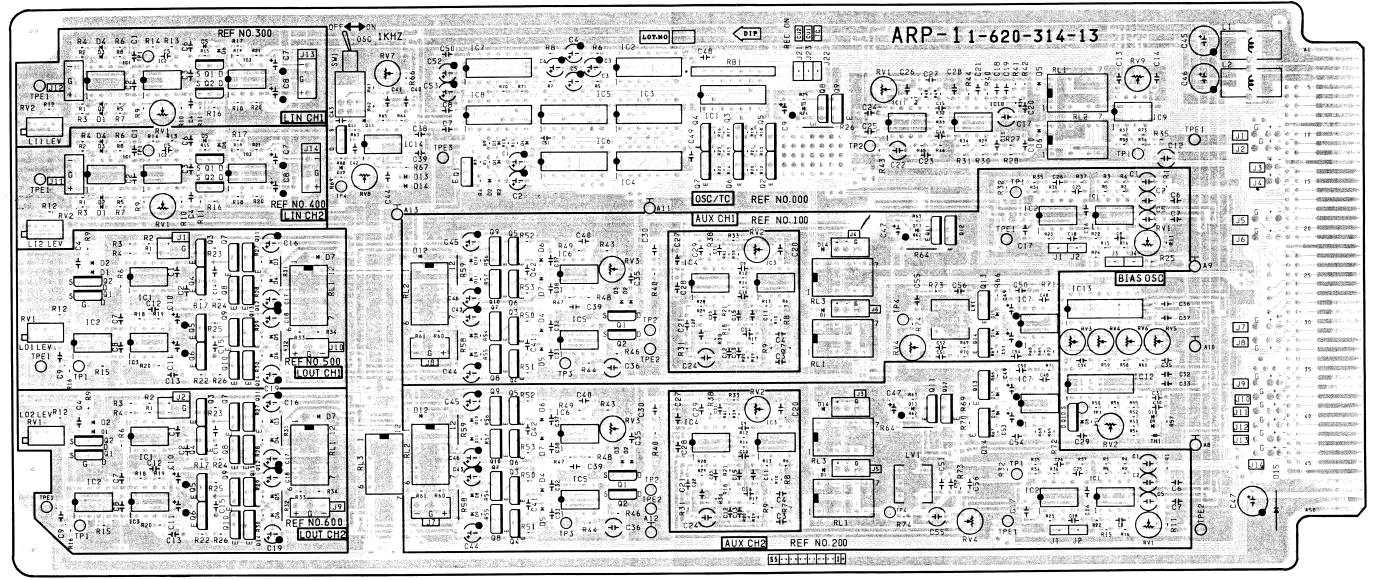
ARP-1



M SOLDER SIDE PATTERN

ARP-1 BOARD (1-620-314-13)
Component Side

S/N: 10001 TO 11500

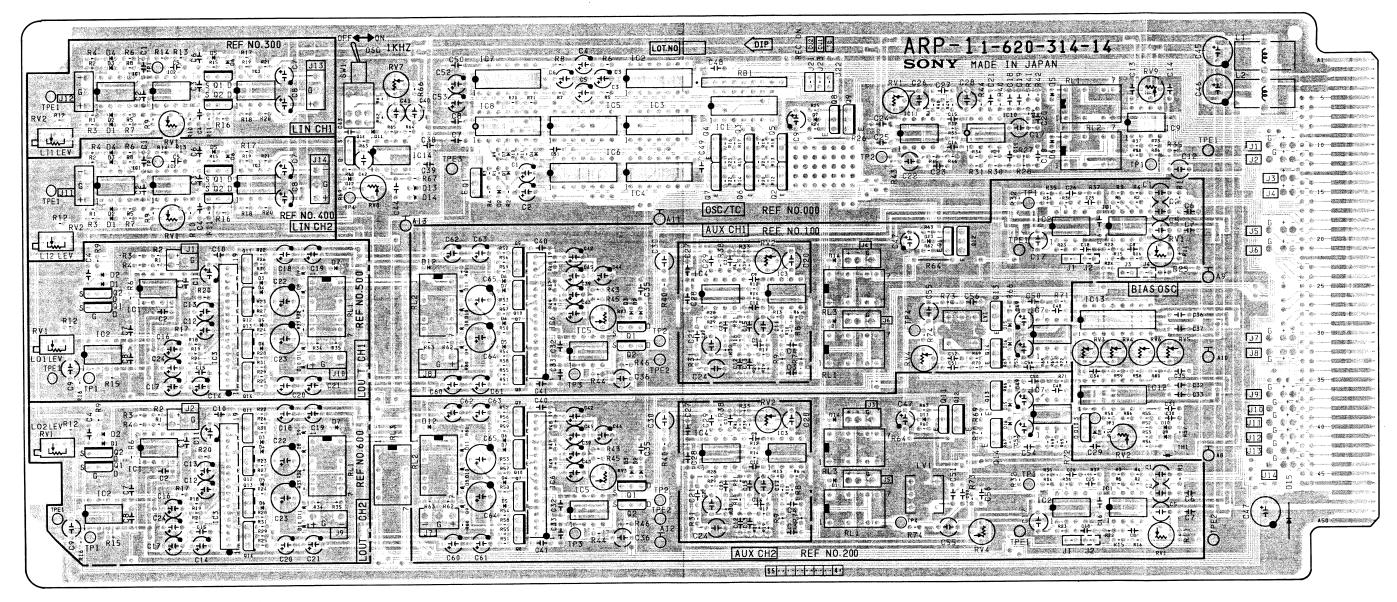


M SOLDER SIDE PATTERN

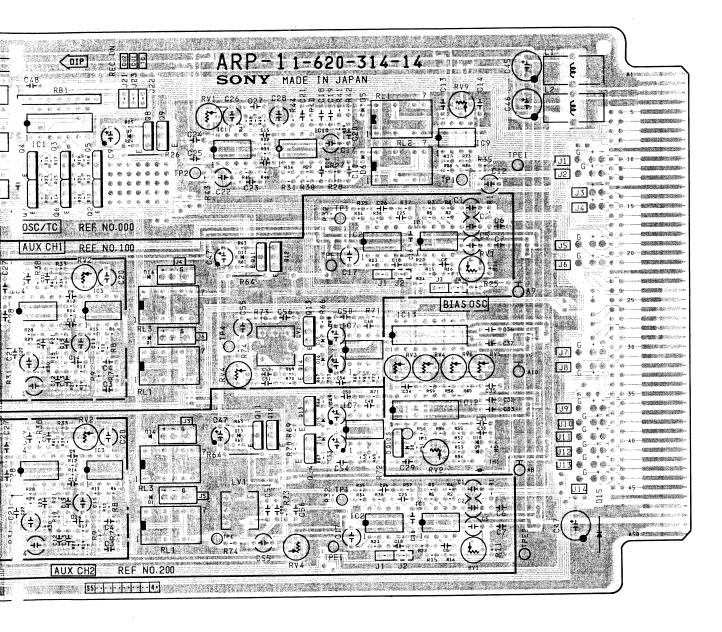
1.690.914.1

ARP-1 BOARD (1-620-314-14)
Component Side

S/N: 11501 AND HIGHER

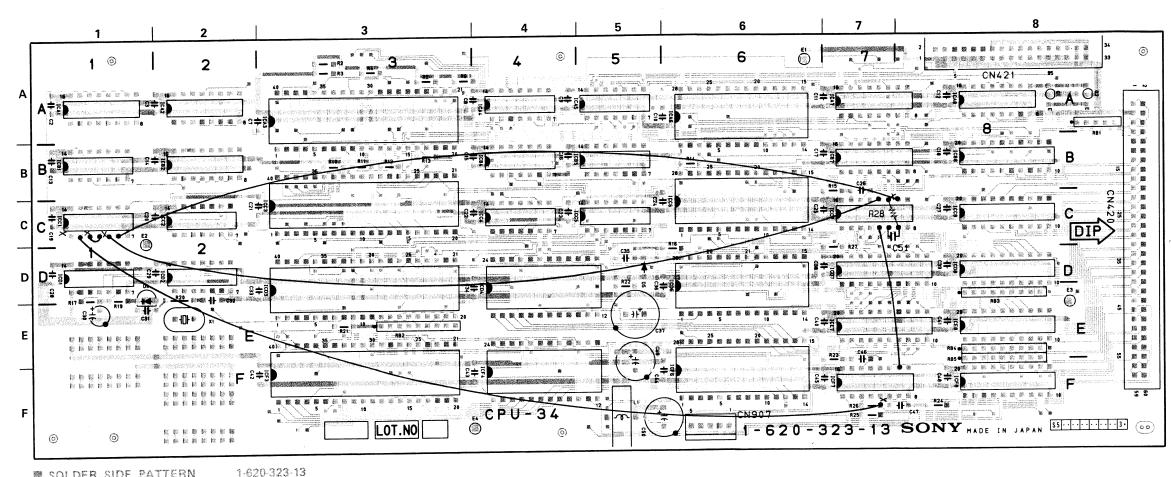


SOLDERING SIDE PATTERN 1-520-314-14

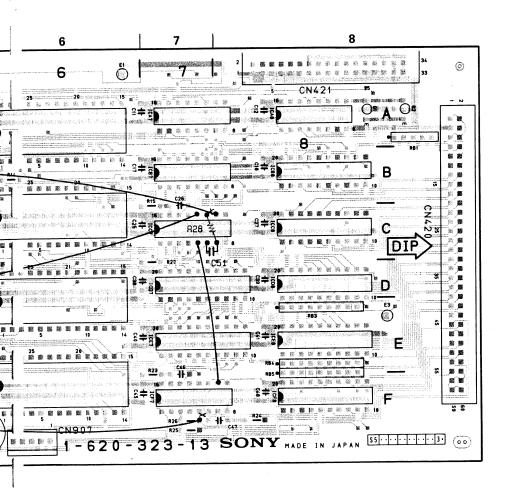


B-6

CPU-34 BOARD (1-620-323-13) Component Side



Applied Serial No.11201 and higher ICC1-4 --- ICC1-5 Jumpers that have been soldered or cut. ICC1-2 --- ICC1-4 ICC1-1 --- GND ICC7-10 --- ICC7-11 ICF7-10 --- R26 ICC1-2 -- R26 ICC1-3 ---— ICC1-4 - ICC7-12 ICC1-5 -ICC1-6 -— ICC7-10 ICC7-5 ---- ICF7-10 C51 Parts have been added. R28

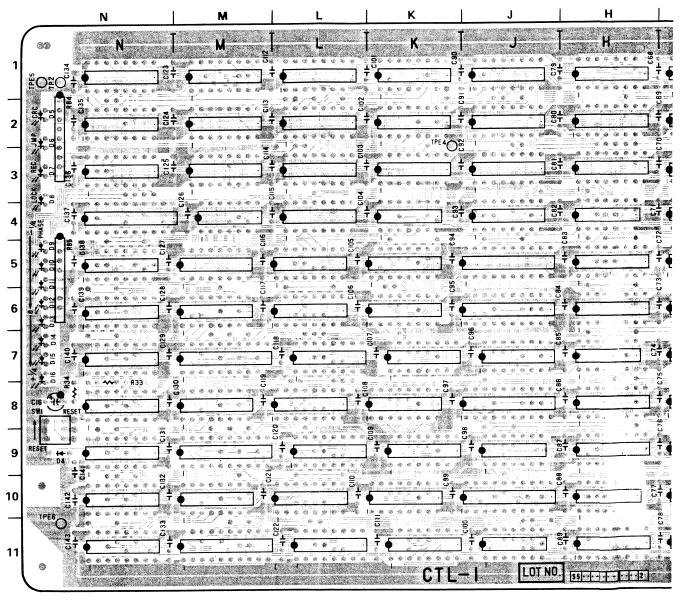


Applied Serial No.11201 and higher	
Jumpers that have been soldered or cut.	ICC1-4
	ICC1-2 — R26 ICC1-3 — ICC1-4 ICC1-5 — ICC7-12 ICC1-6 — ICC7-10 ICC7-5 — ICF7-10
Parts have been added.	C51 R28

B-12

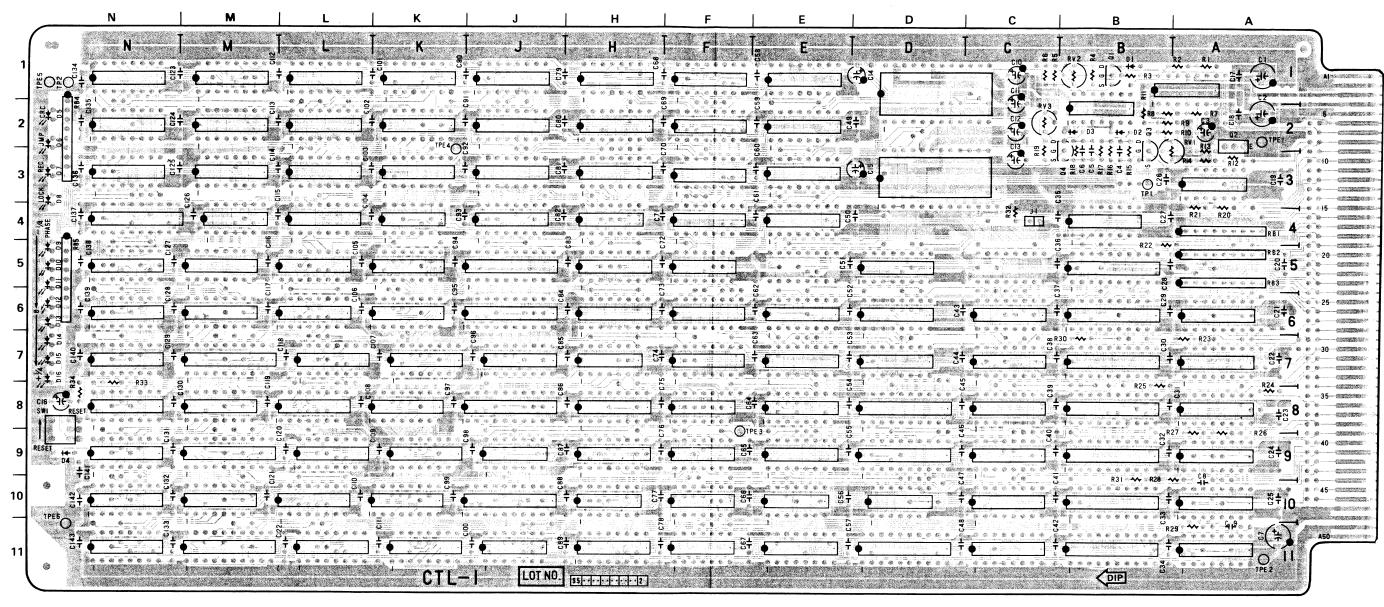
CTL-1

CTL-1 BOARD (1-620-310-12) S/N; 10001 TO 10900 Component Side



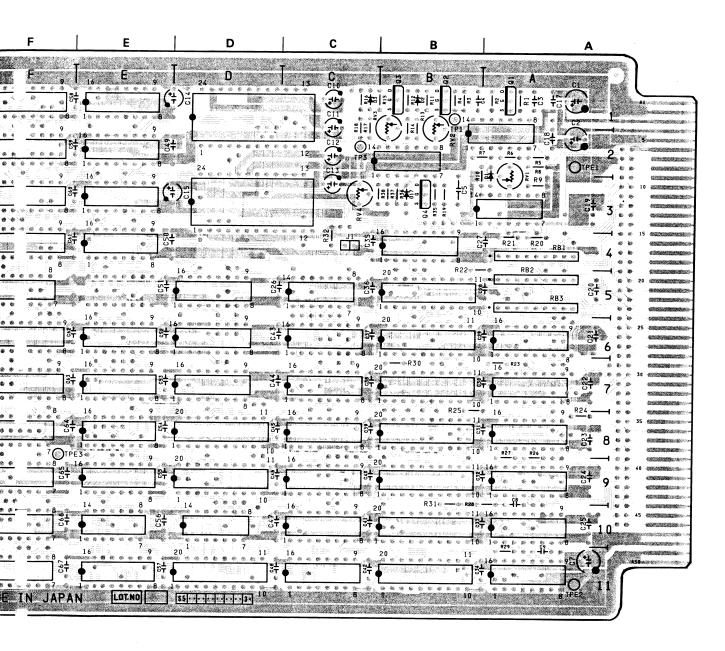
TO SOLDER SIDE PATTERN

CTL-1 BOARD (1-620-310-12) S/N; 10001 TO 10900 Component Side

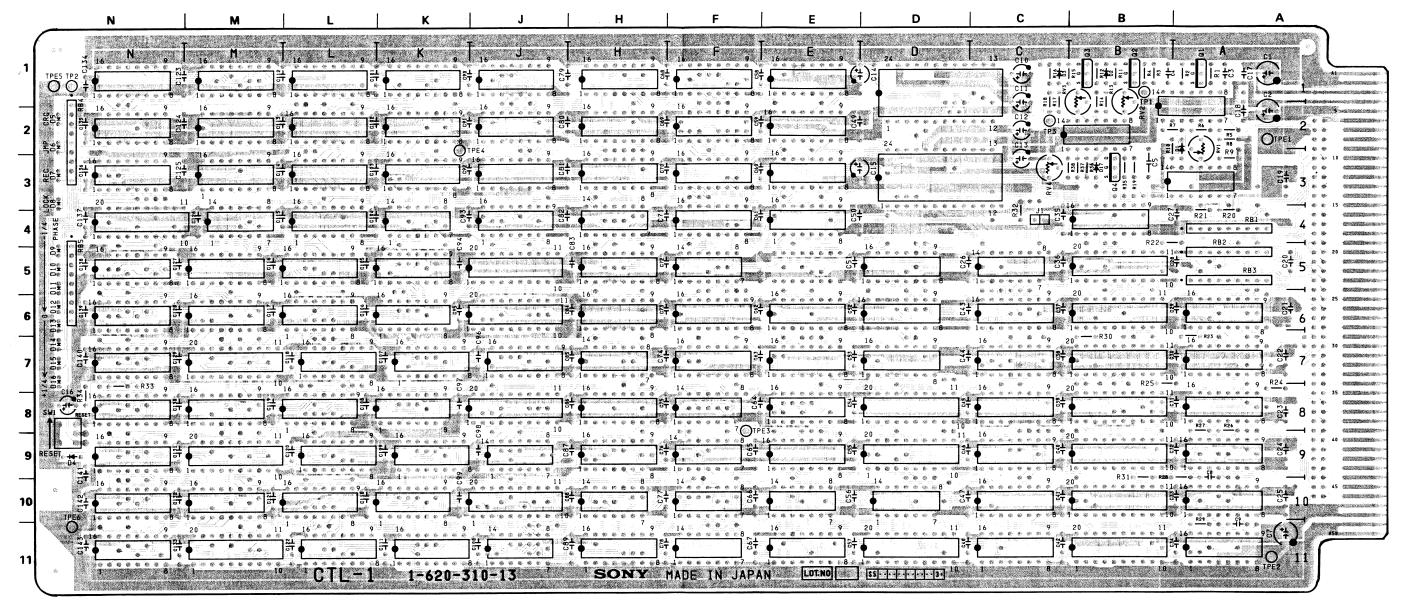


ME SOLDER SIDE PATTERN

1-620-310-12



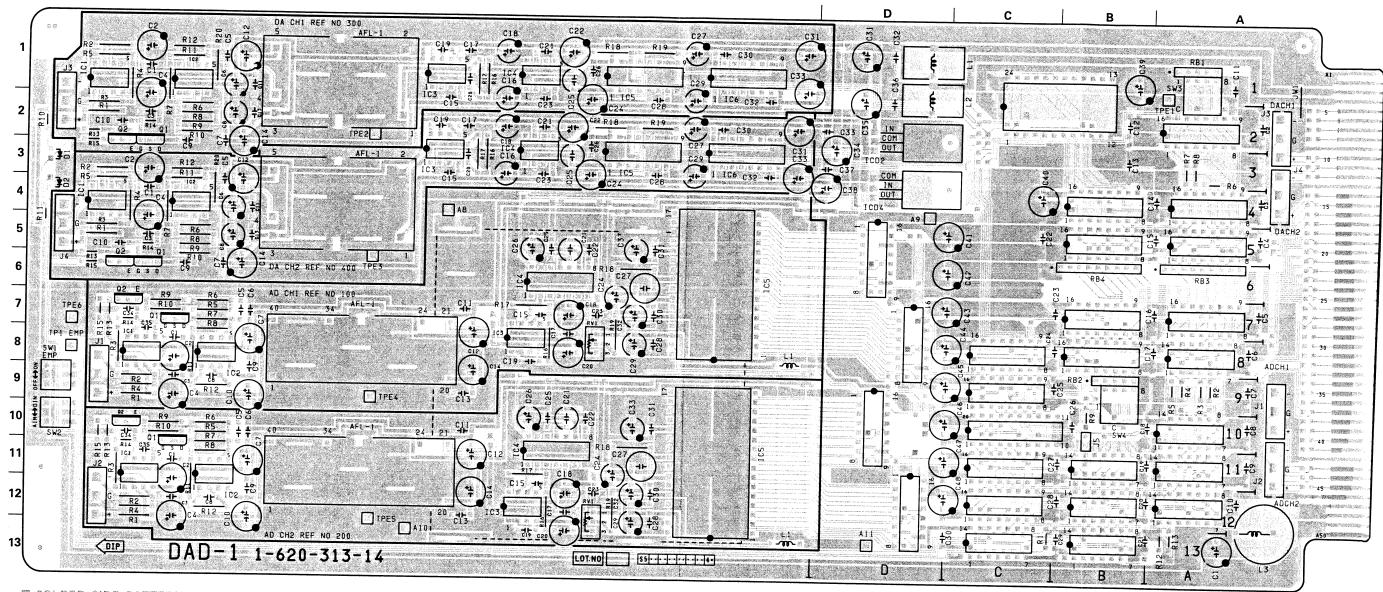
CTL-1 BOARD (1-620-310-13) S/N; 10901 AND HIGHER Component Side



M SOLDER SIDE PATTERN

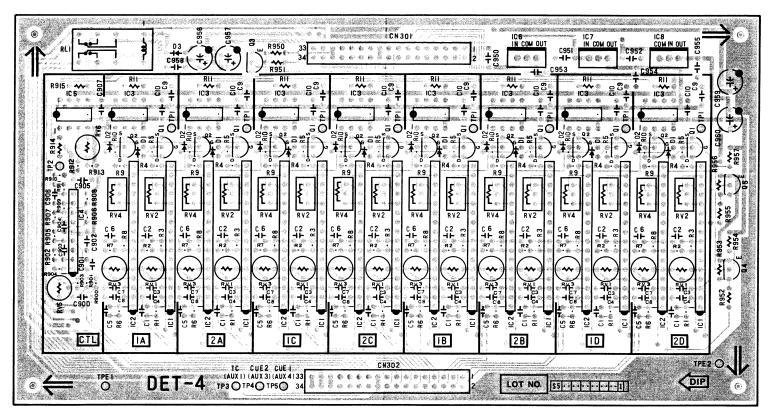
1-620-310-13

DAD-1 BOARD (1-620-313-14) Component Side



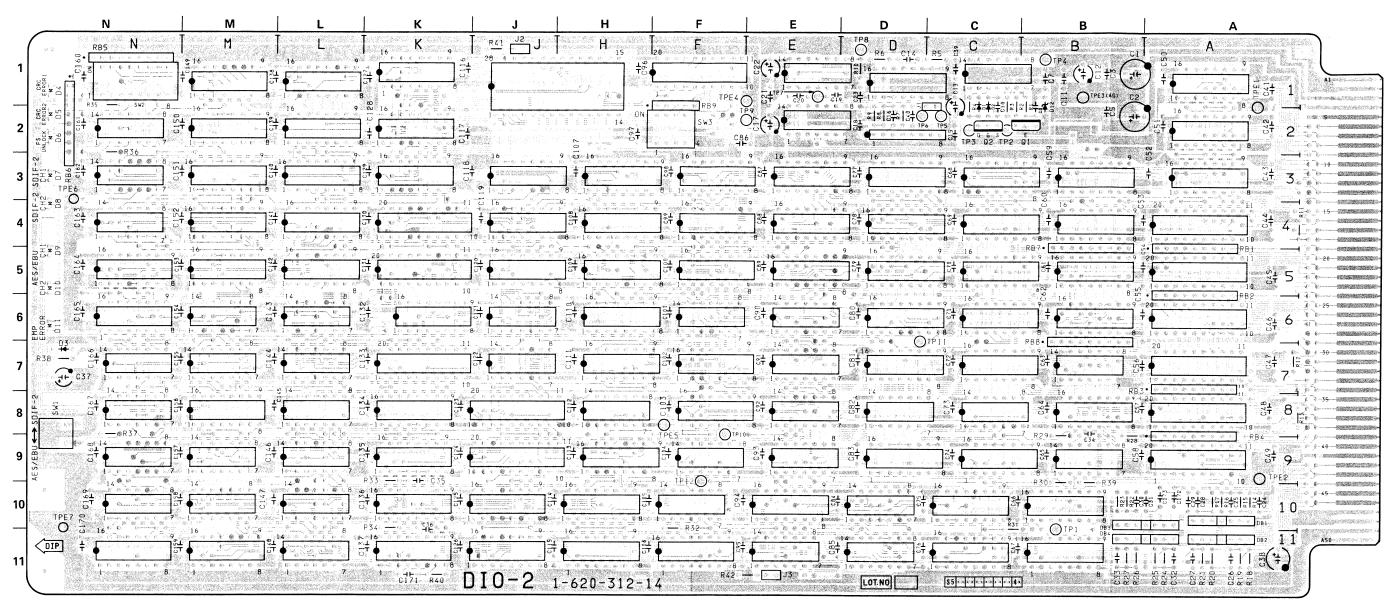
1-620-313-14

DET-4 BOARD (1-620-317-12) Component Side



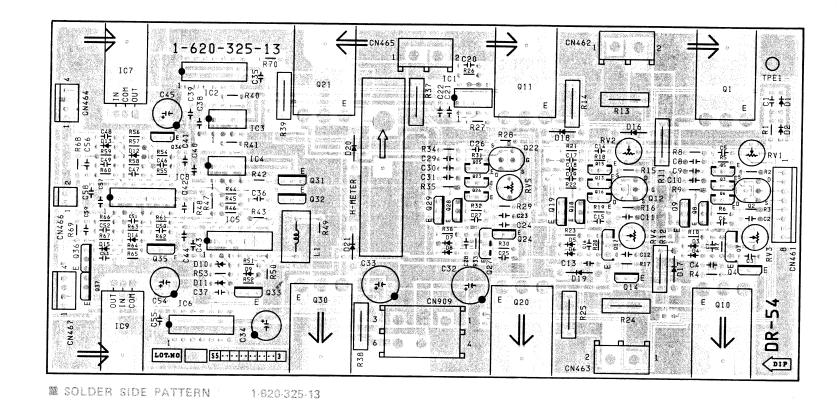
1-620-317-12

DIO-2 BOARD (1-620-312-14)
Component Side



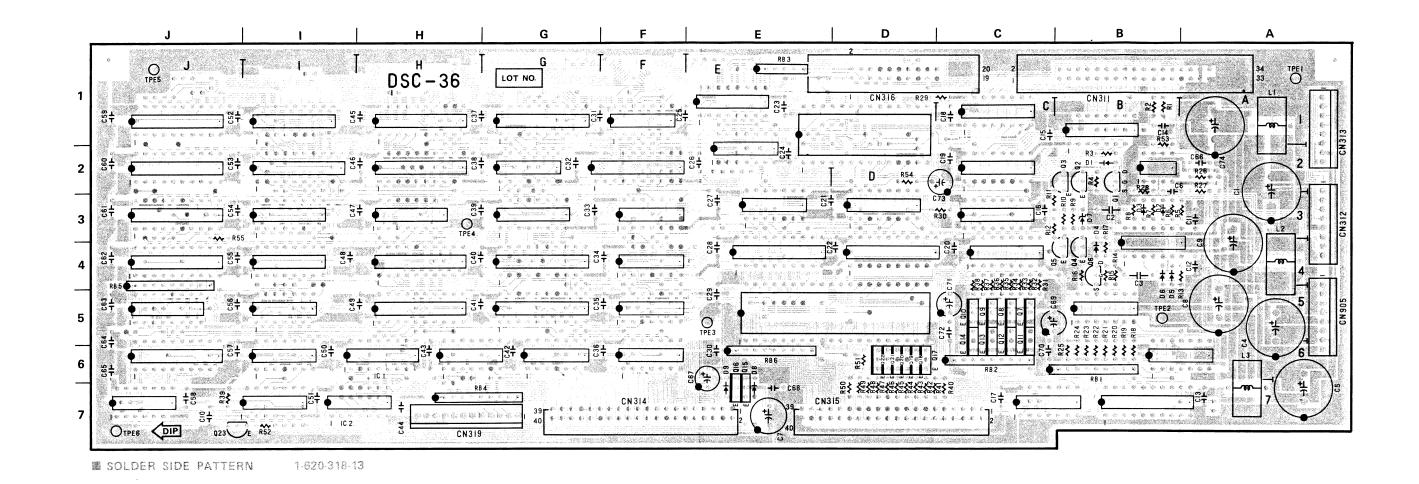
1-620-312-14

DR-54 BOARD (1-620-325-13) Component Side



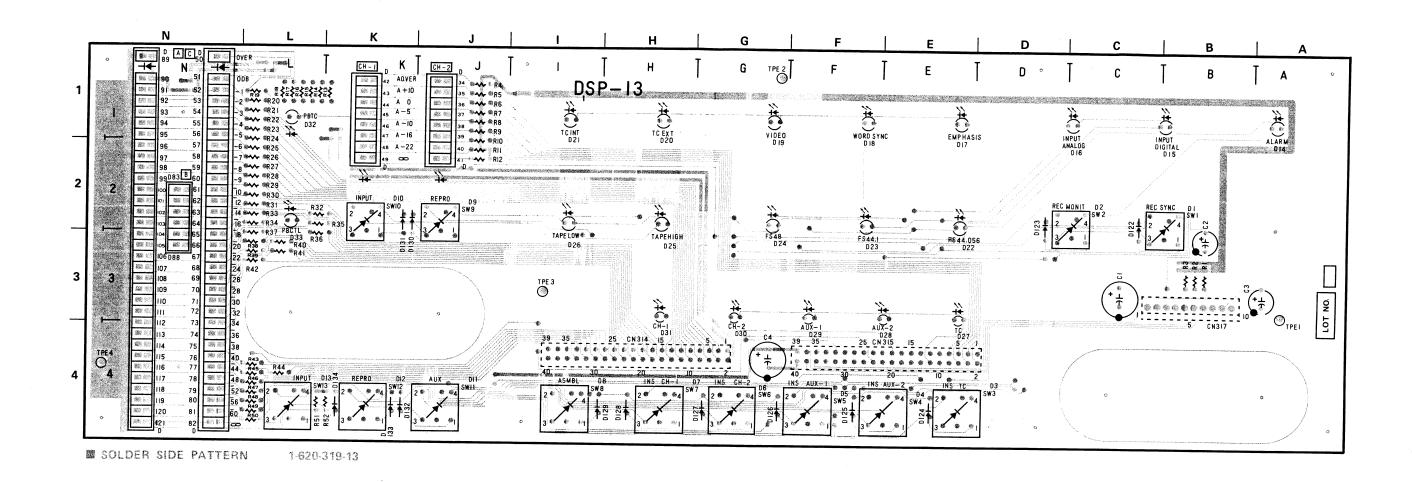
B-40

DSC-36 BOARD (1-620-318-13) Component Side

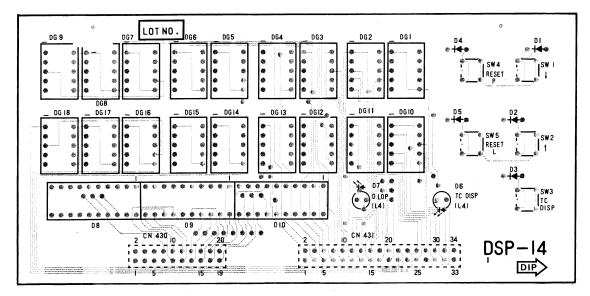


B-47 (48)

DSP-13 BOARD (1-620-319-13) Component Side



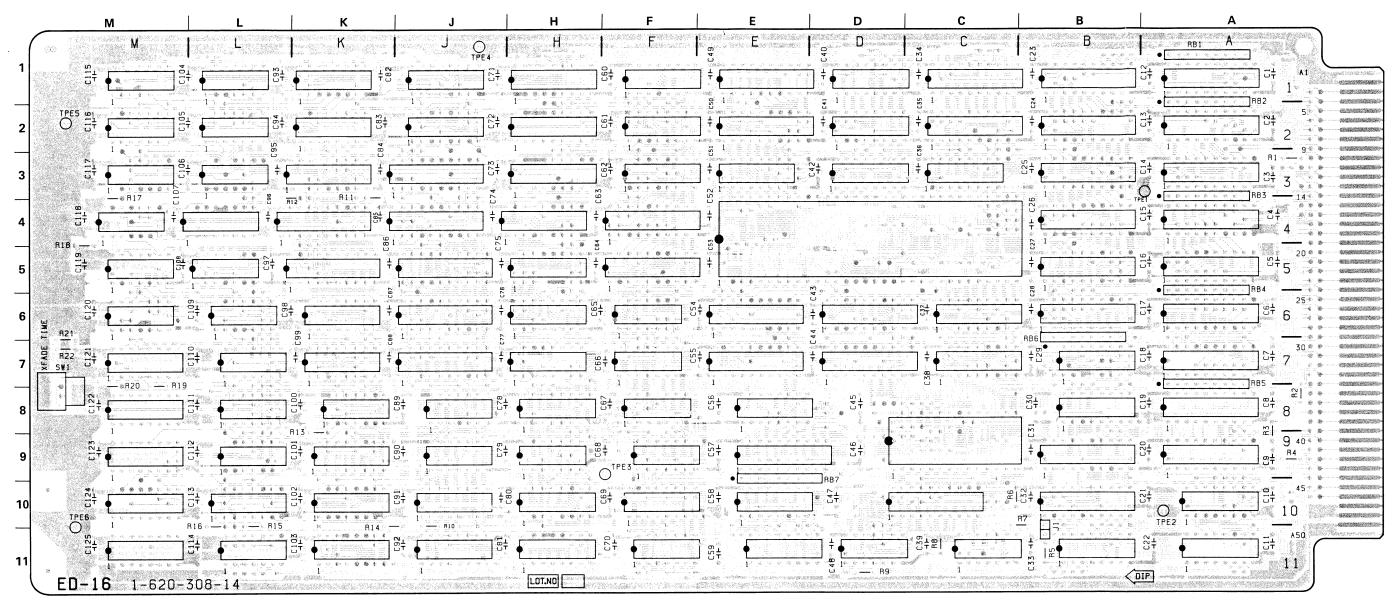
DSP-14 BOARD (1-620-322-13) Component Side



M SOLDER SIDE PATTERN

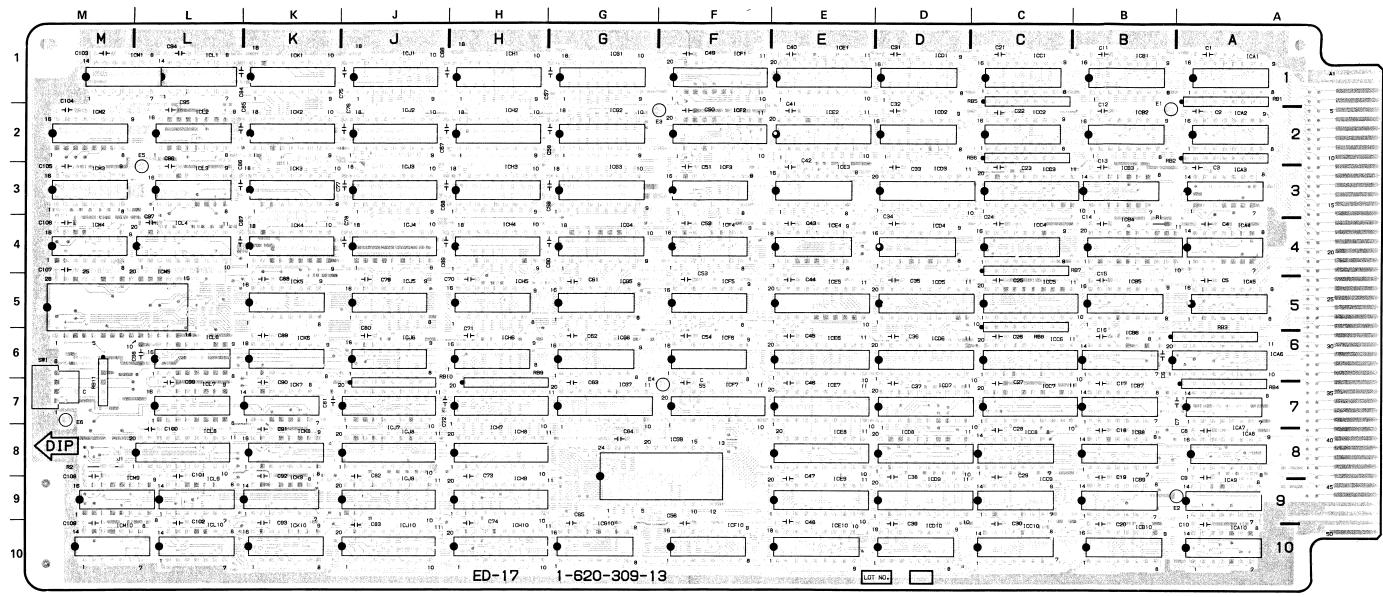
1-620-322-13

ED-16 BOARD (1-620-308-14) Component Side



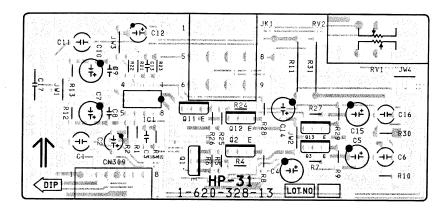
1-620-308-14

ED-17 BOARD (1-620-309-13) Component Side



1-620-309-13

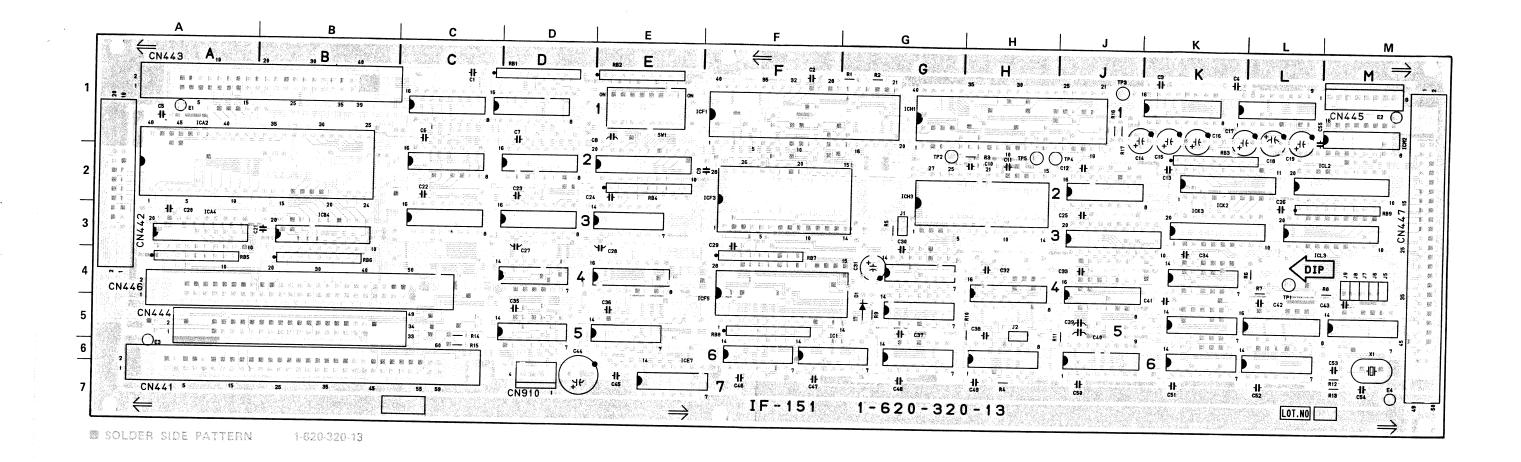
HP-31 BOARD (1-620-328-13) Component Side



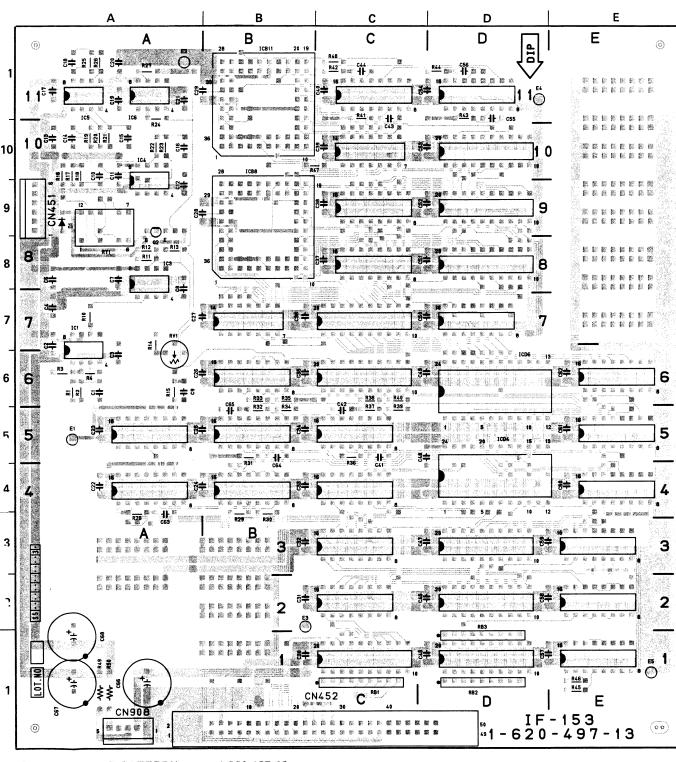
M SOLDER SIDE PATTERN

1-620-328-13

IF-151 BOARD (1-620-320-13) Component Side

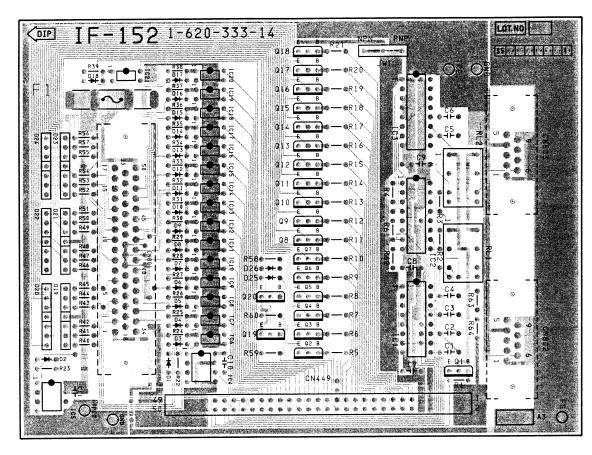


IF-153 BOARD (1-620-497-13) Component Side



SOLDER SIDE PATTERN 1-620-497-13

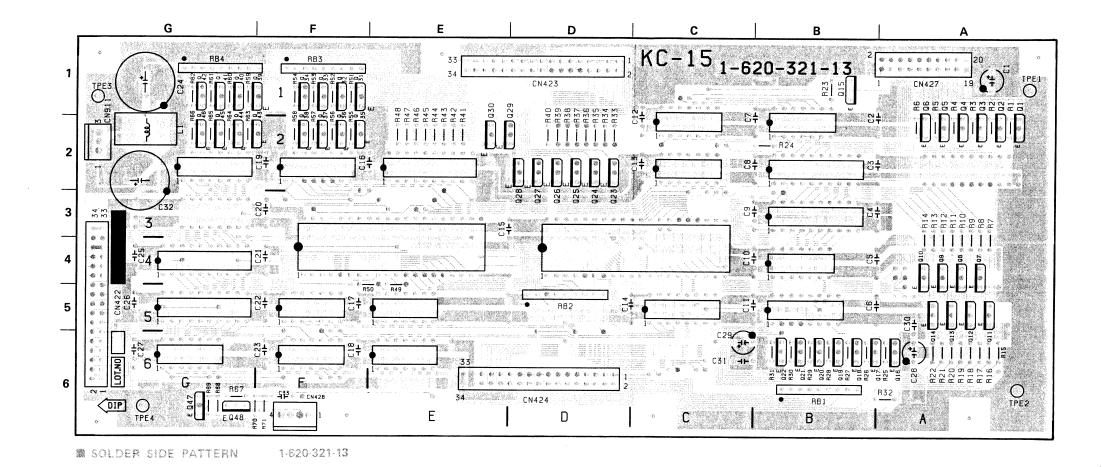
IF-152 BOARD (1-620-333-14) Component Side S/N; 10501 AND HIGHER



M SOLDER SIDE PATTERN

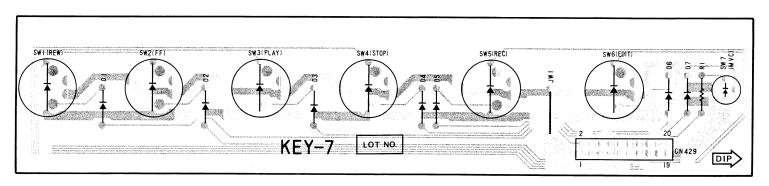
1-620-333-14

KC-15 BOARD (1-620-321-13) Component Side



B-92

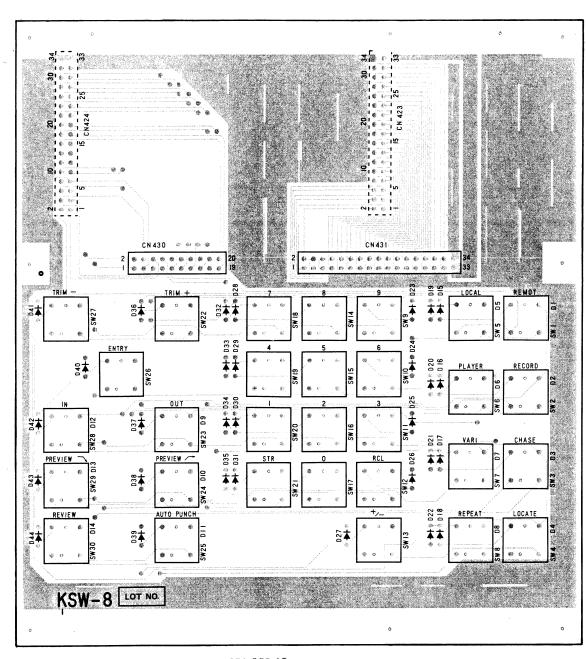
KEY-7 BOARD (1-620-327-12) Component Side



SOLDER SIDE PATTERN

1-620-327-12

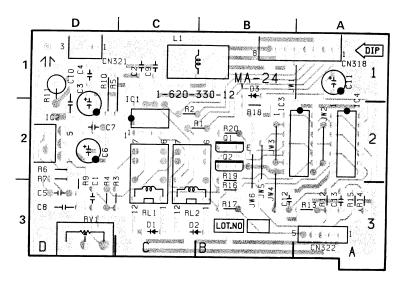
KSW-8 BOARD (1-620-332-12) Component Side



SOLDER SIDE PATTERN

1-620-332-12

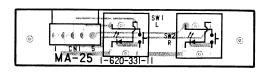
MA-24 BOARD (1-620-330-12) Component Side



SOLDER SIDE PATTERN

1-620-330-12

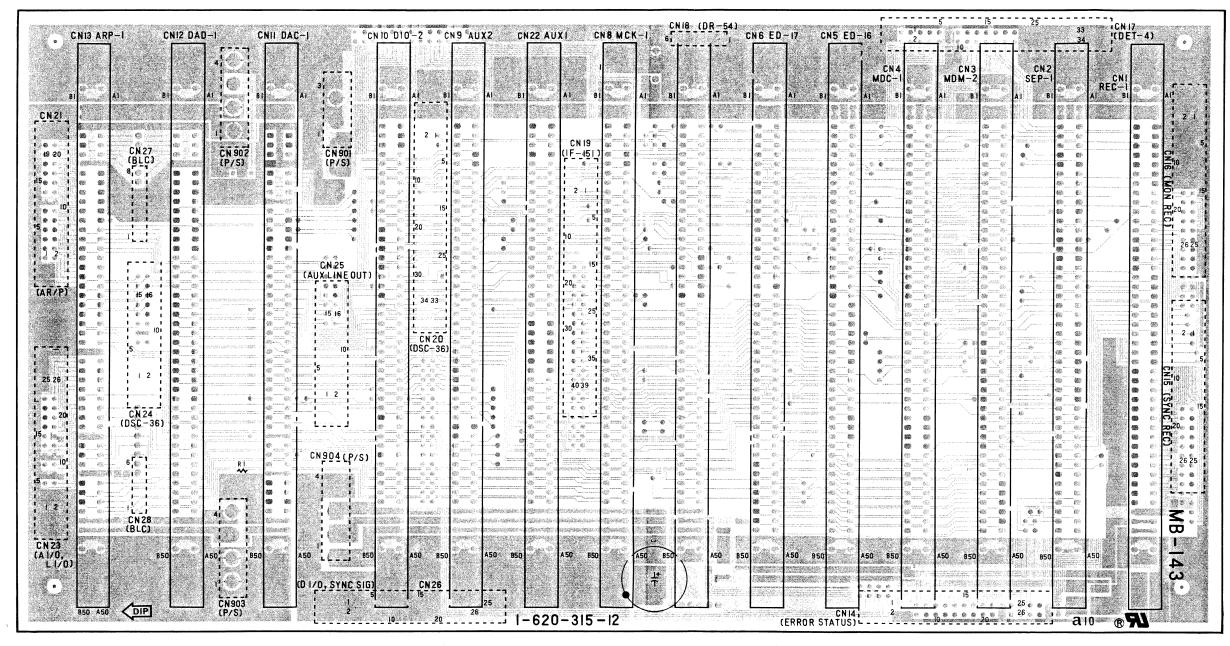
MA-25 BOARD (1-620-331-11) Component Side



₩ SOLDER SIDE PATTERN

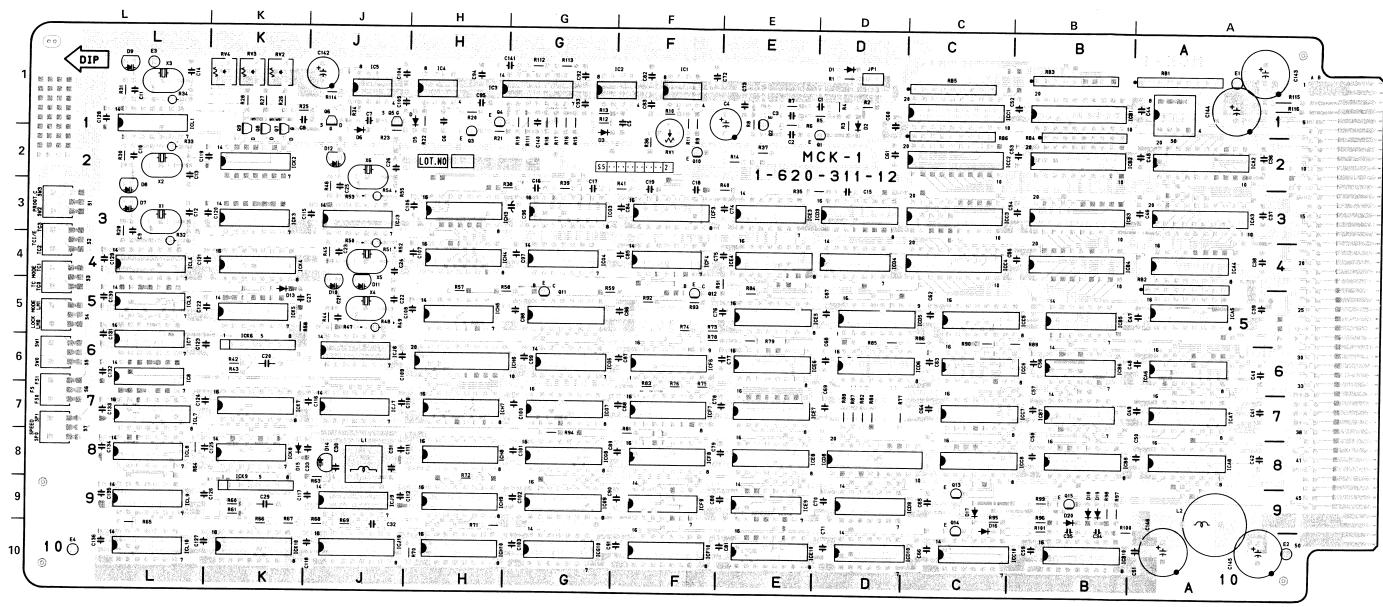
1-620-331-11

MB-143 BOARD (1-620-315-12) Solder Side



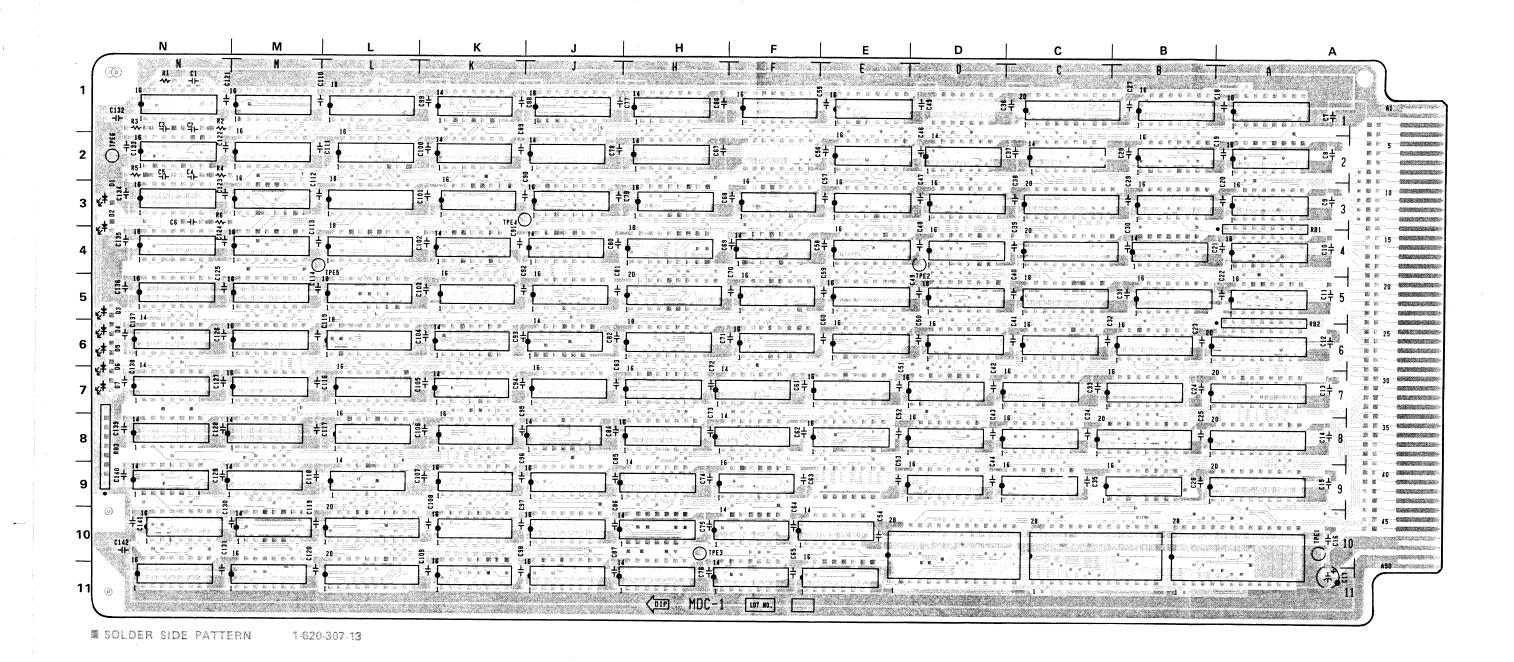
1-620-315-12

MCK-1 BOARD (1-620-311-12) Component Side



1-620-311-12

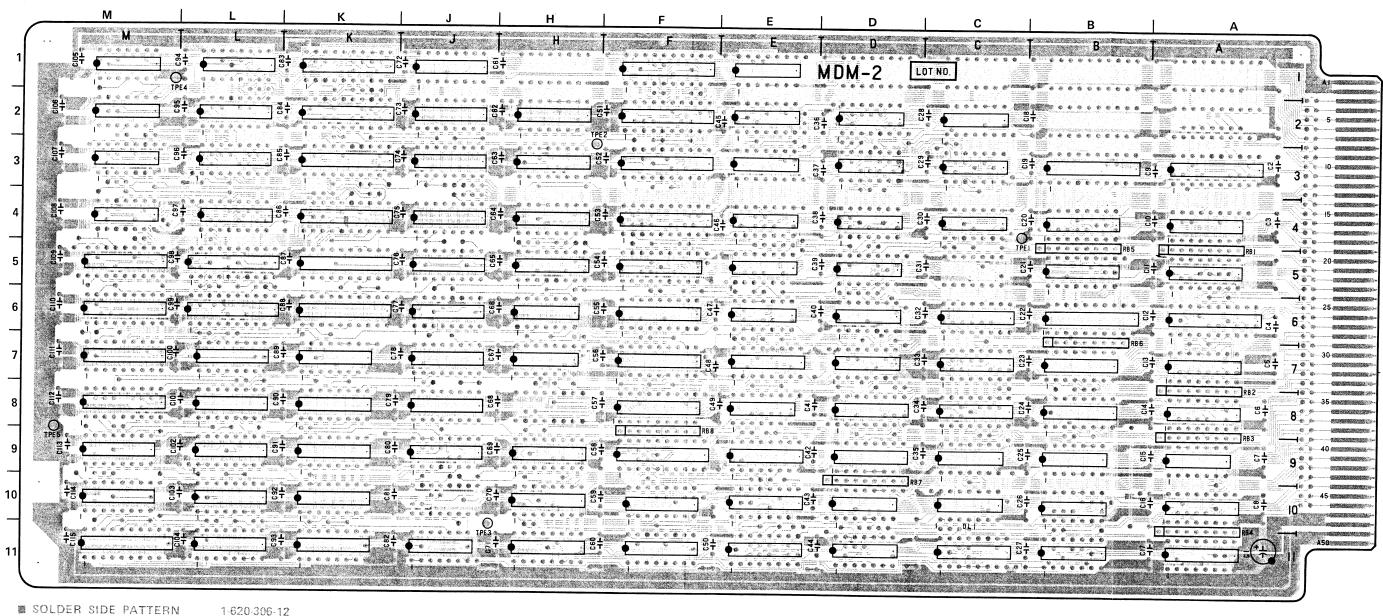
MDC-1 BOARD (1-620-307-13) Component Side



B-124

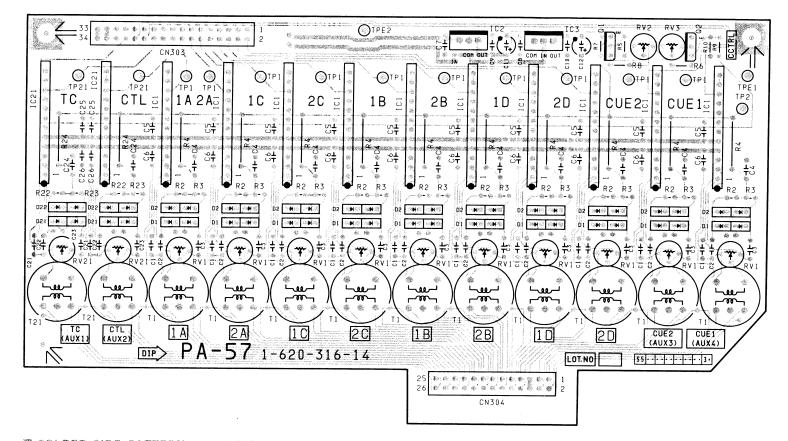
B-125 126

MDM-2 BOARD (1-620-306-12) Component Side



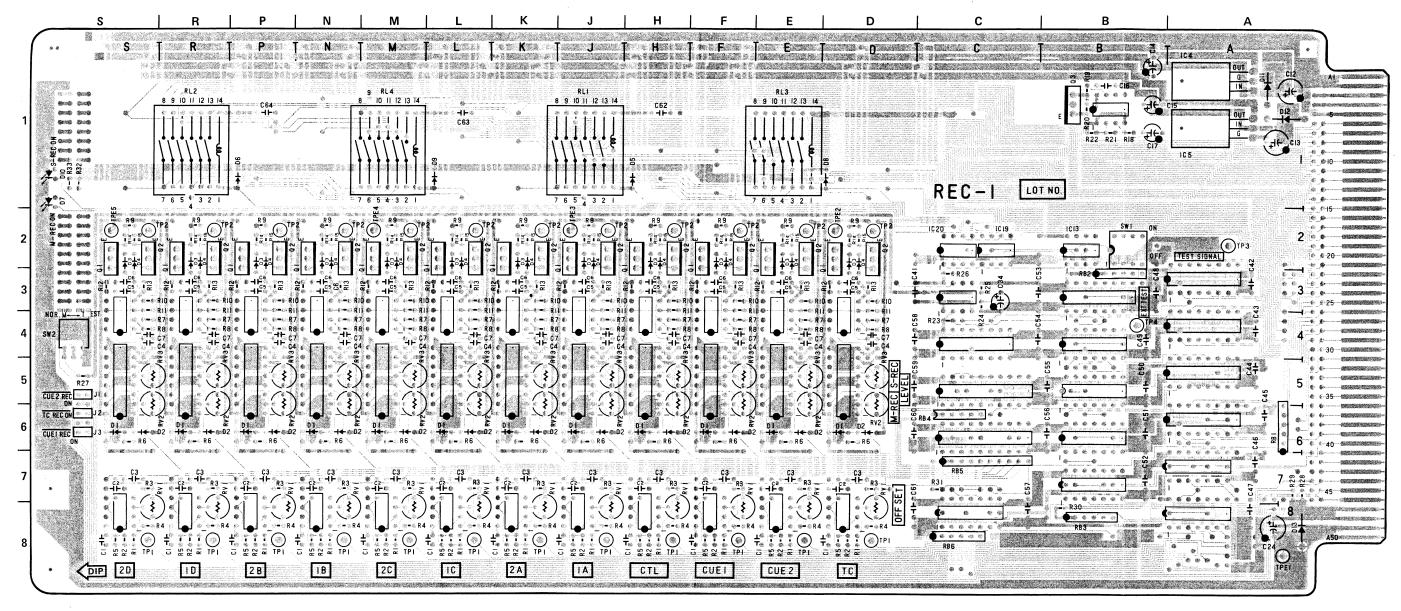
1-620-306-12

PA-57 BOARD (1-620-316-14) Component Side



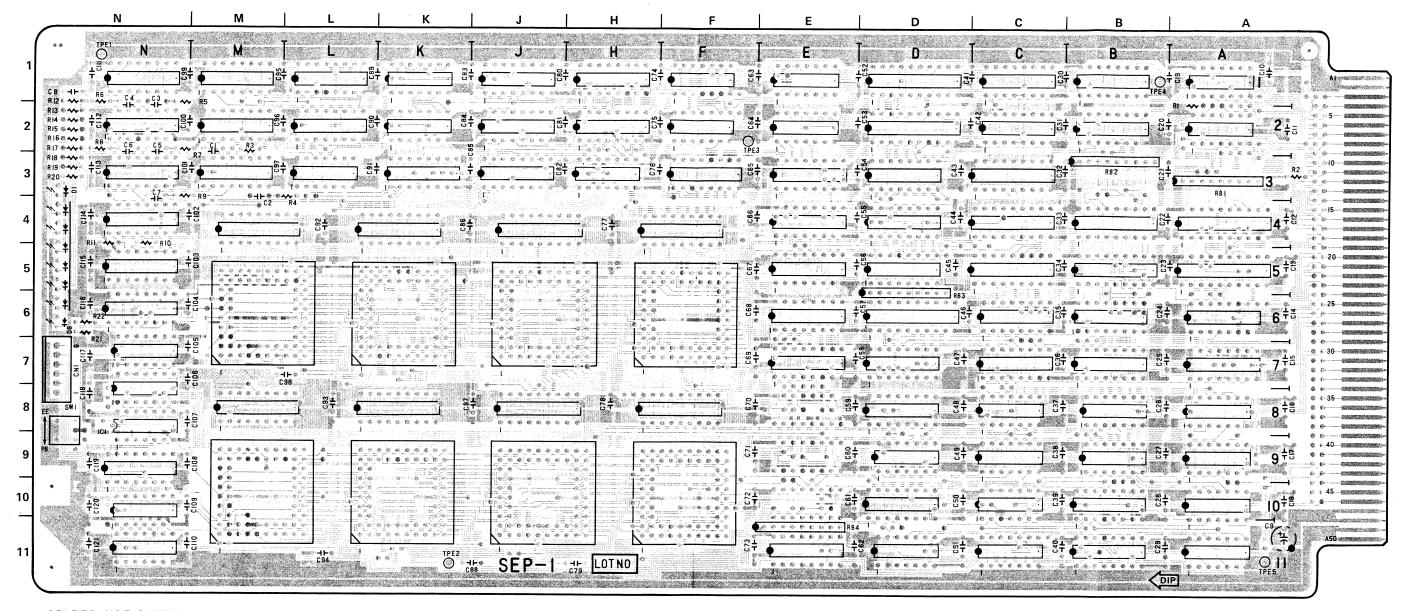
₩ SOLDER SIDE PATTERN 1-620-316-14

REC-1 BOARD (1-620-304-12) Component Side



1-620-304-12

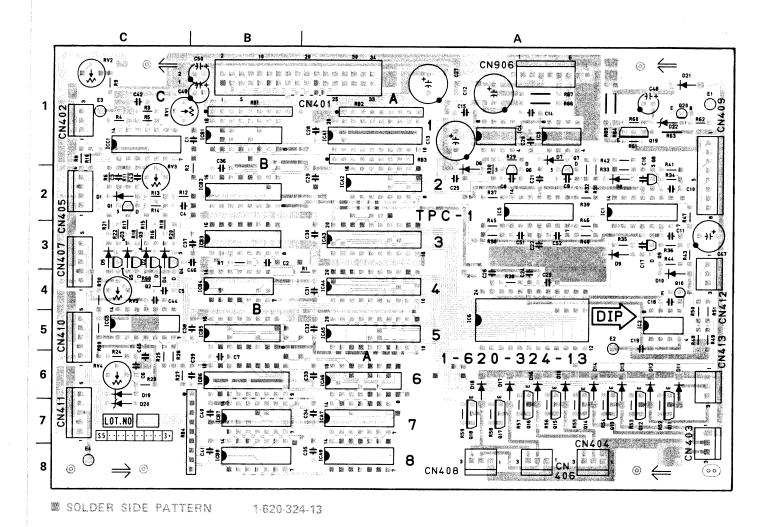
SEP-1 BOARD (1-620-305-12)
Component Side



SOLDER SIDE PATTERN

1-620-305-12

TPC-1 BOARD (1-620-324-13)
Component Side



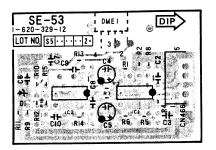
VR-56 BOARD (1-620-326-12) Component Side



SOLDER SIDE PATTERN

1-620-326-12

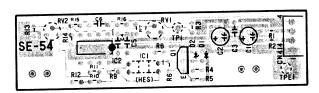
SE-53 BOARD (1-620-329-12) Component Side



SOLDER SIDE PATTERN

1-620-329-12

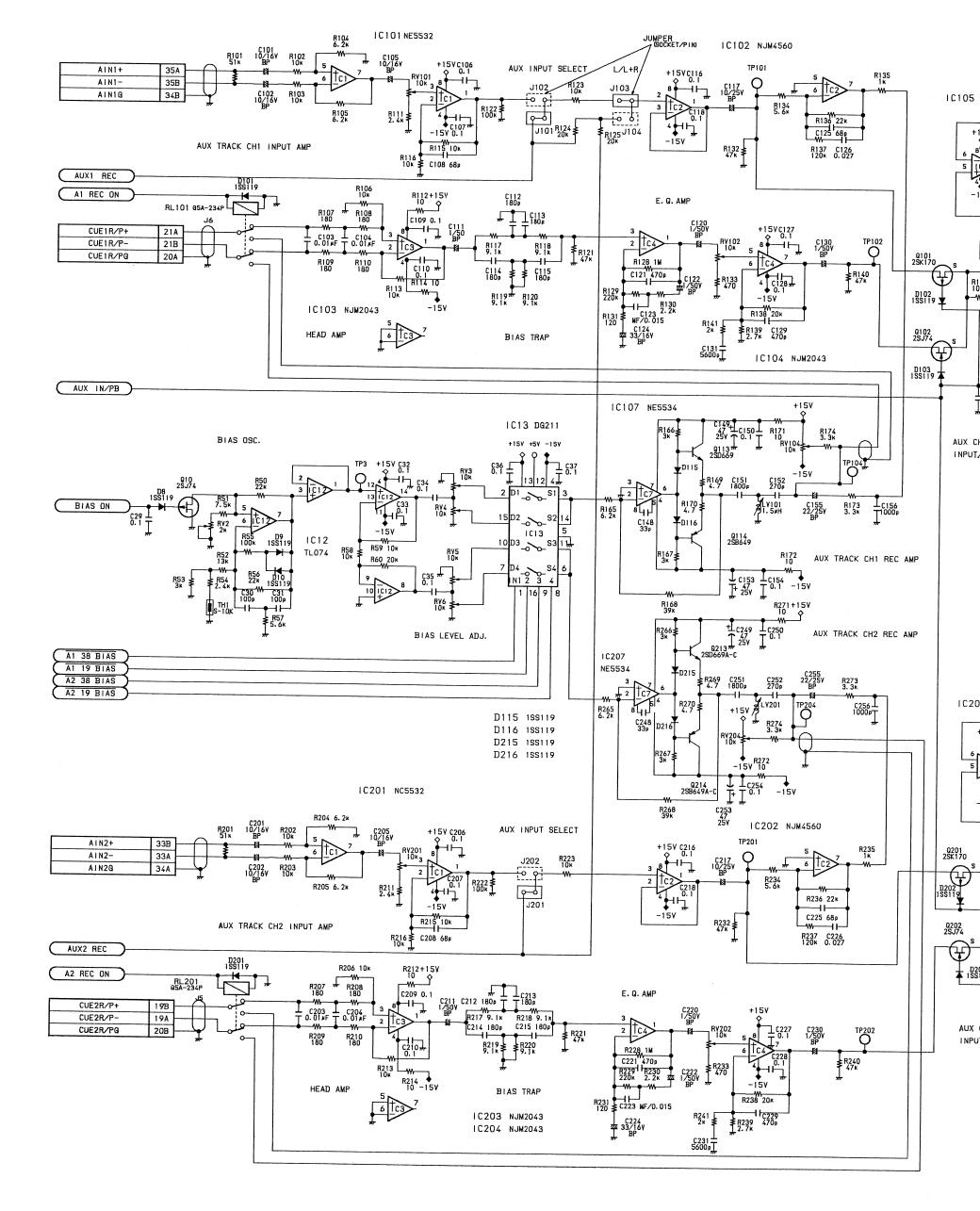
SE-54 BOARD (1-620-334-11) Component Side

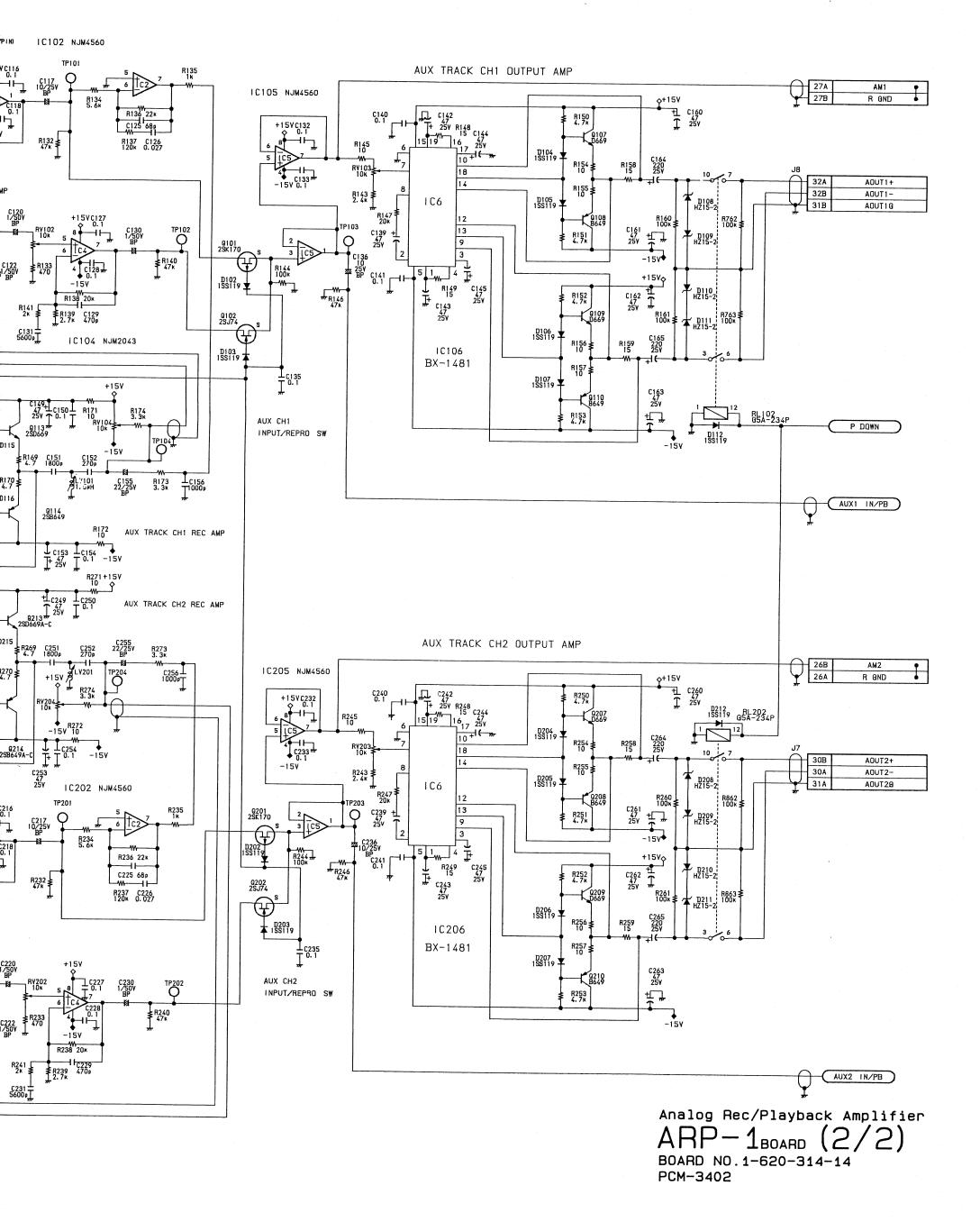


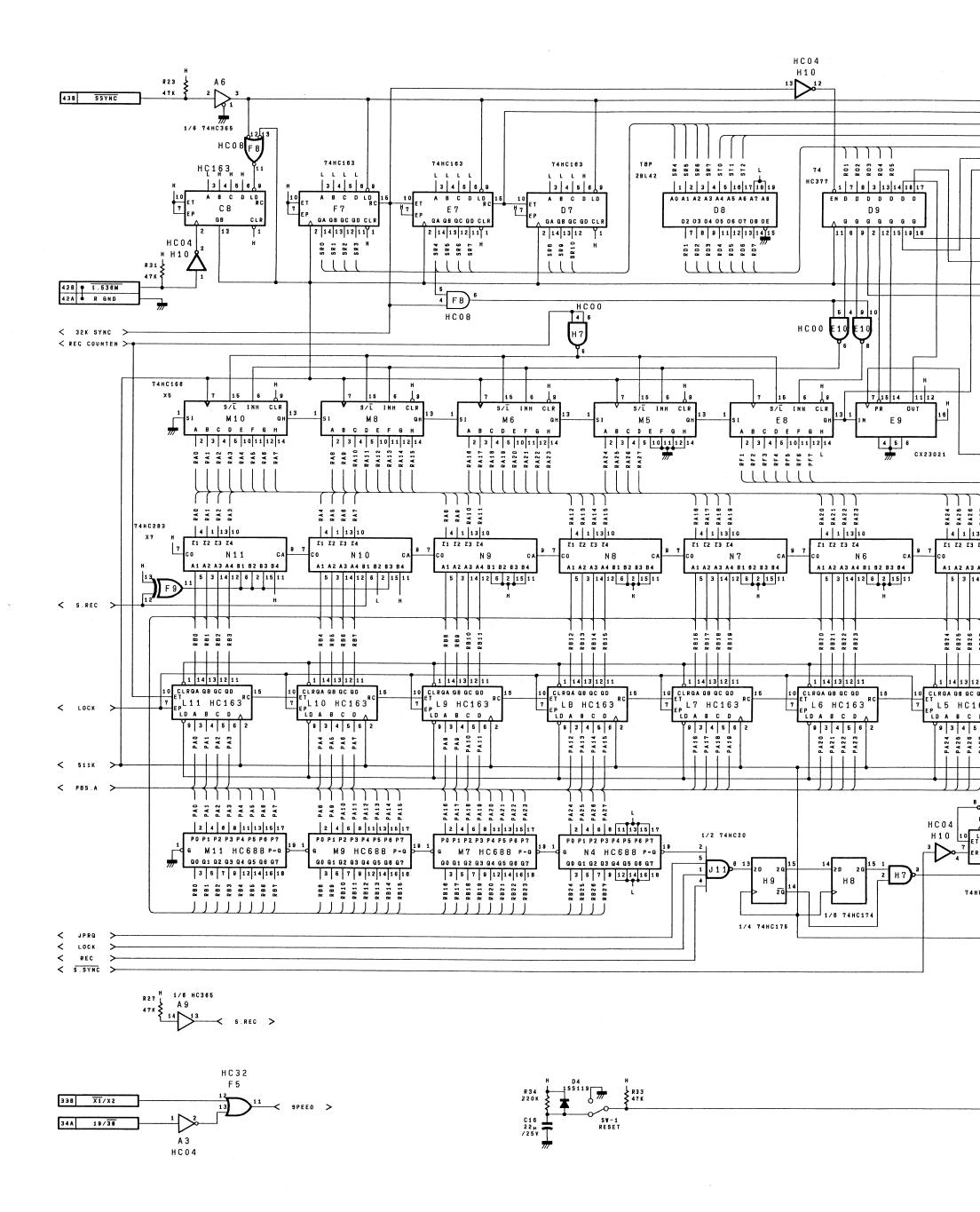
SOLDER SIDE PATTERN

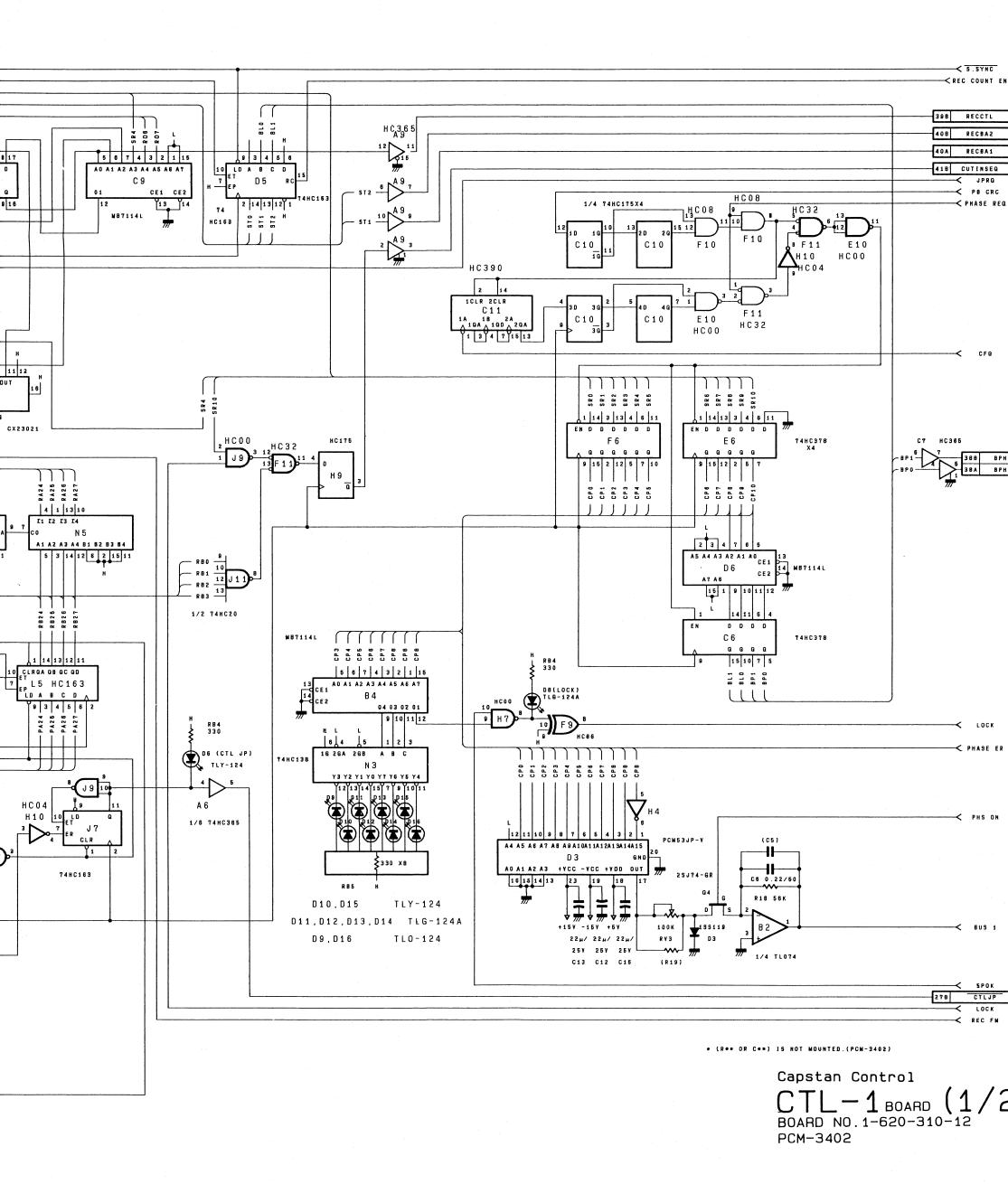
1-620-334-11

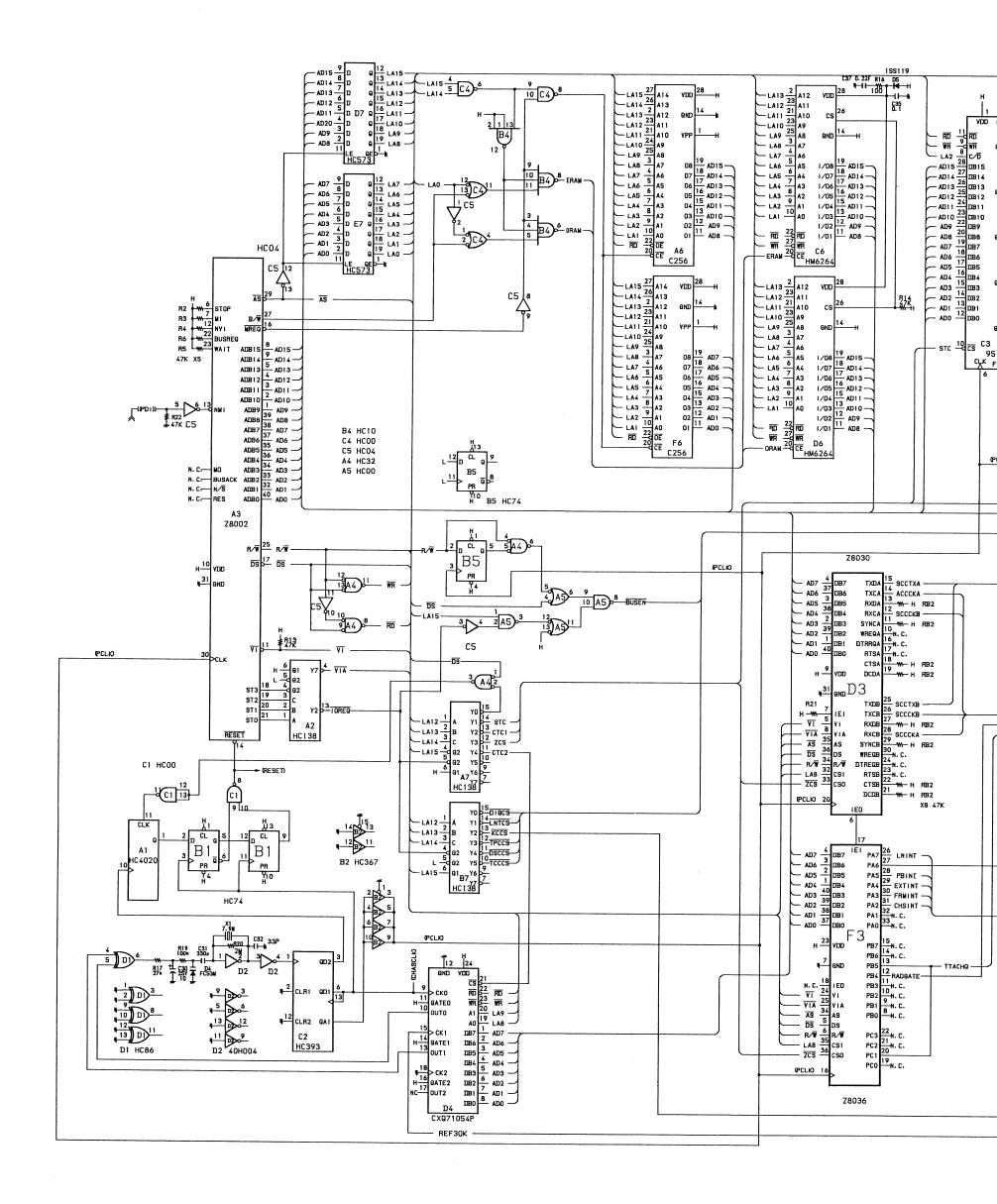
SECTION C SCHEMATIC DIAGRAMS

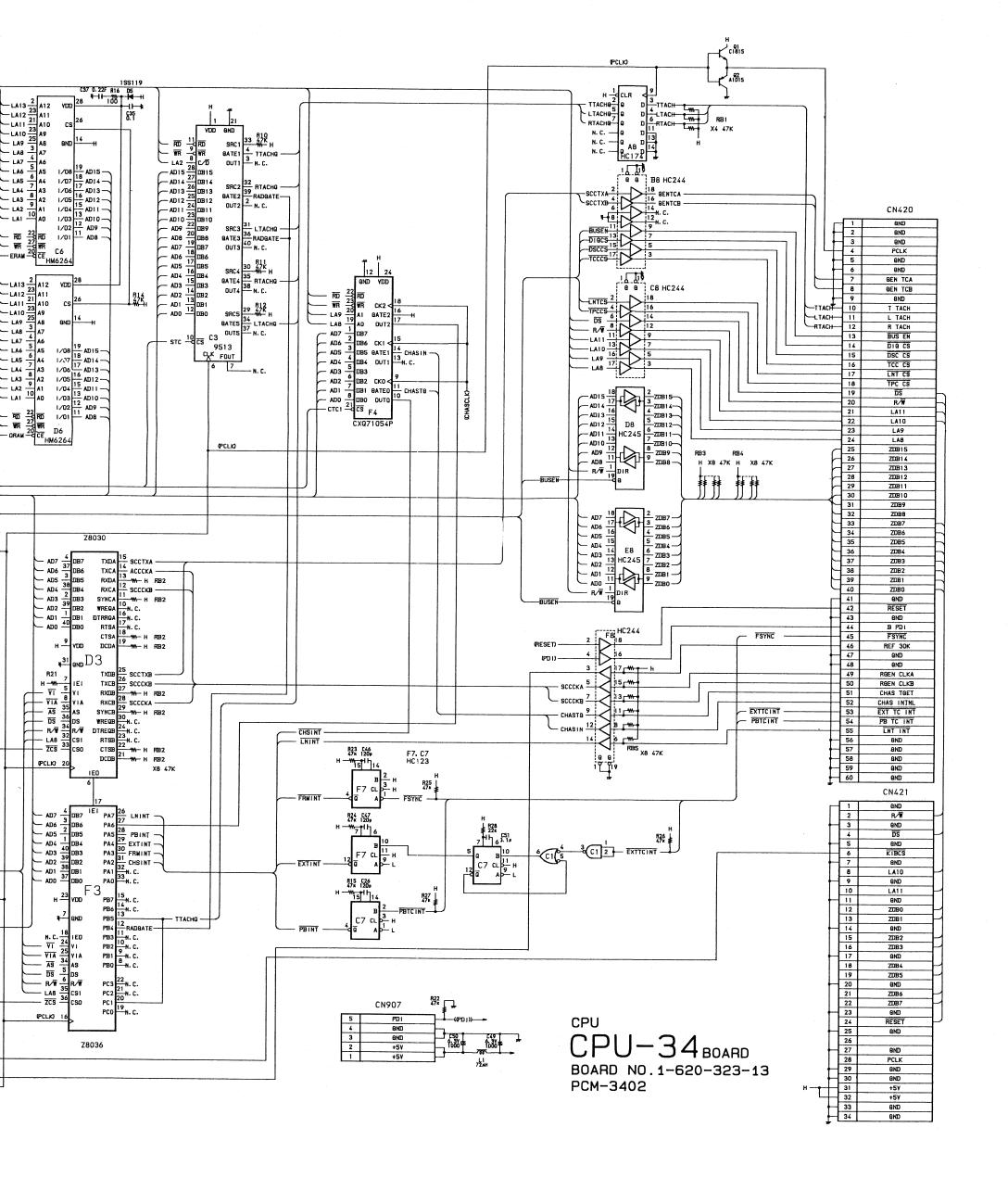


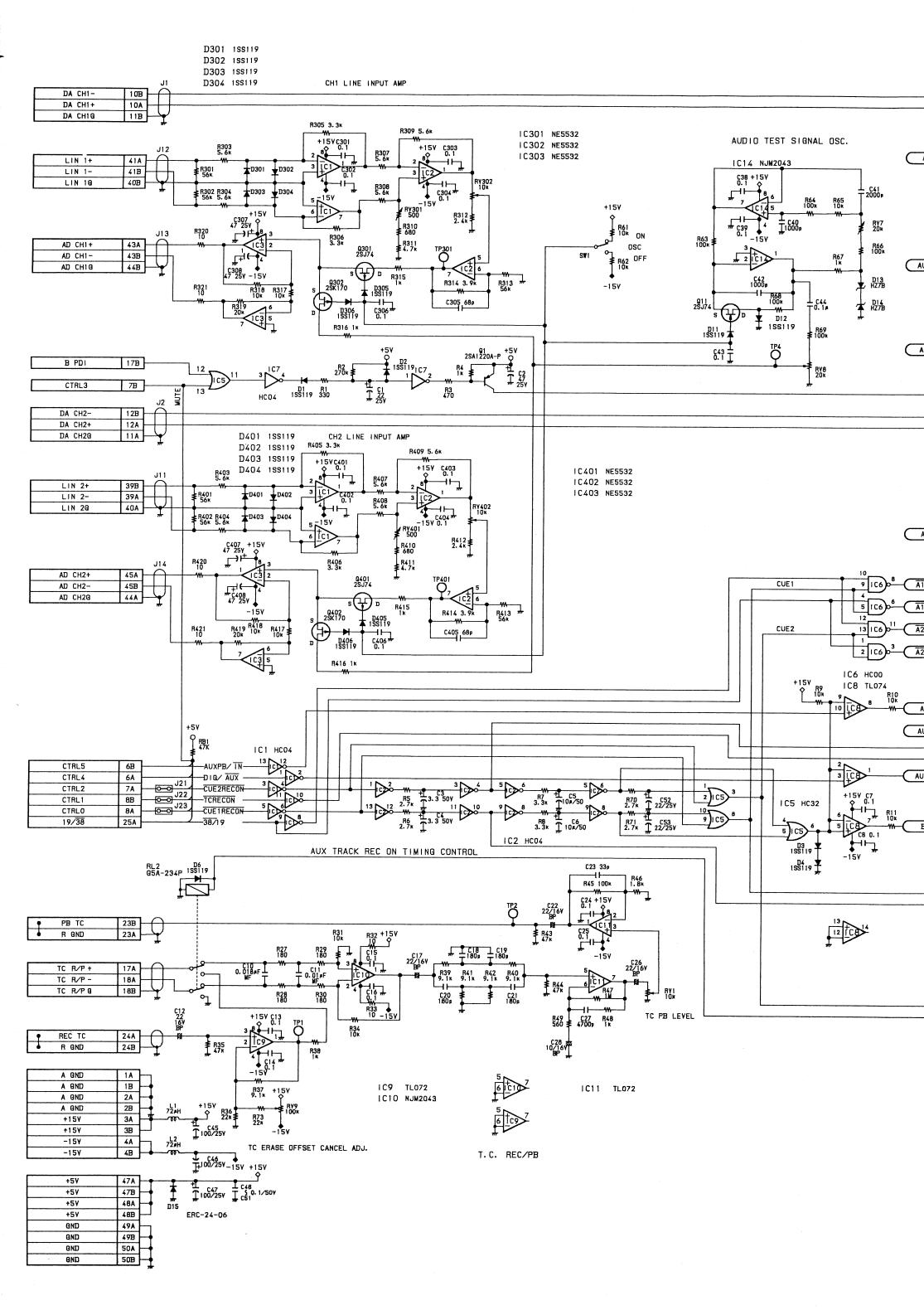


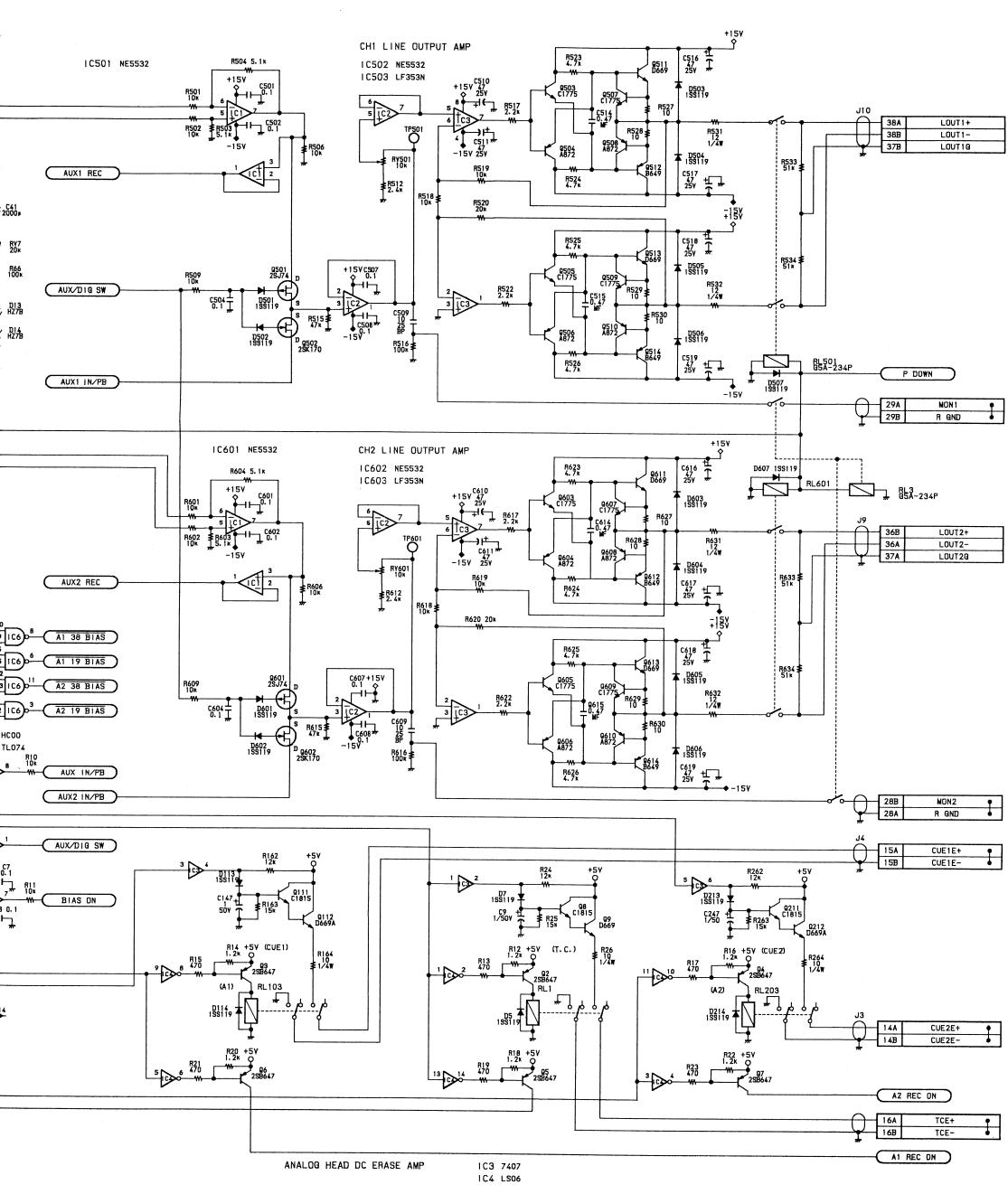




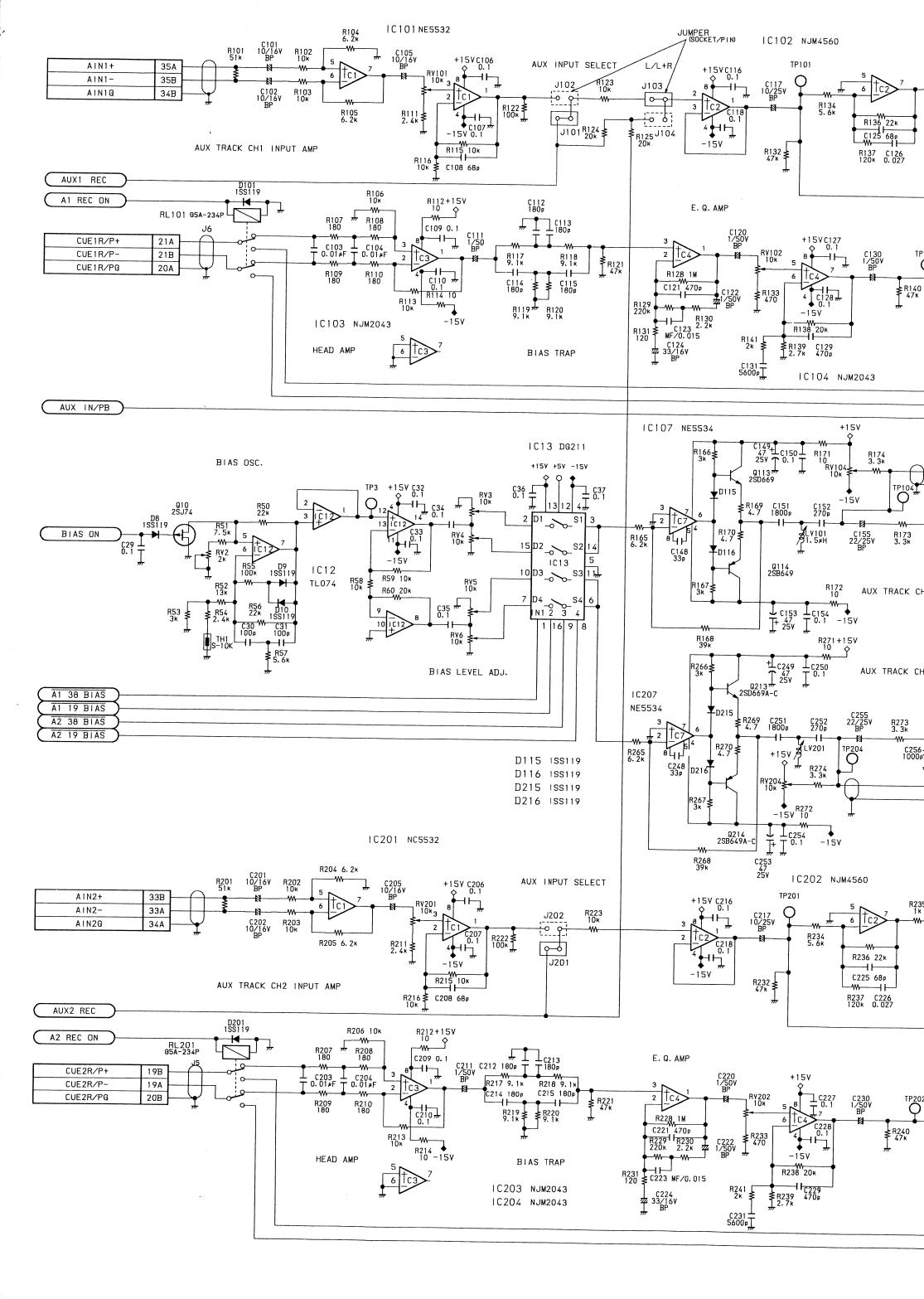


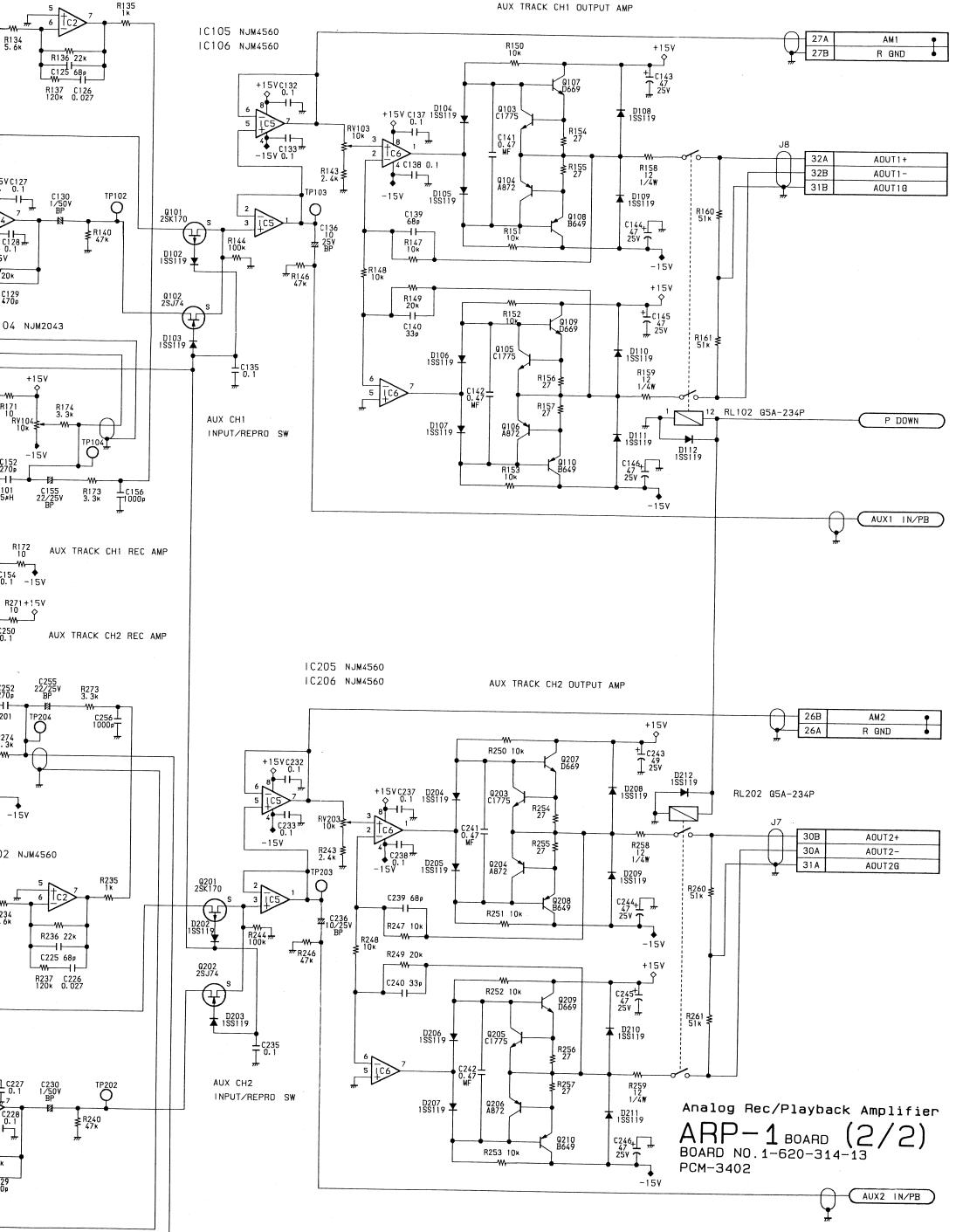


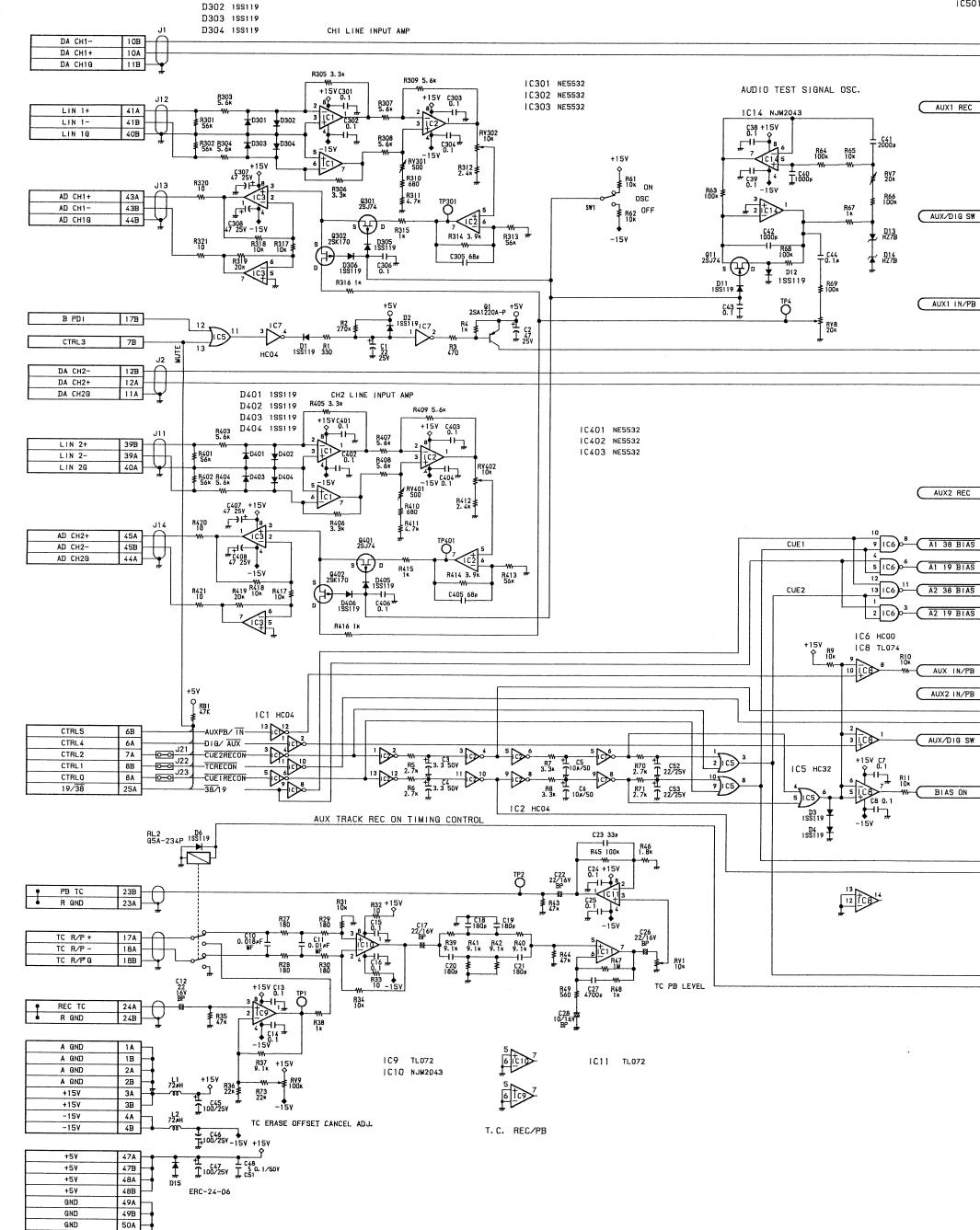




Anglog Rec/Playback Amplifier $APP-1_{BOARD} (1/2)_{BOARD NO.1-620-314-13}$ PCM-3402



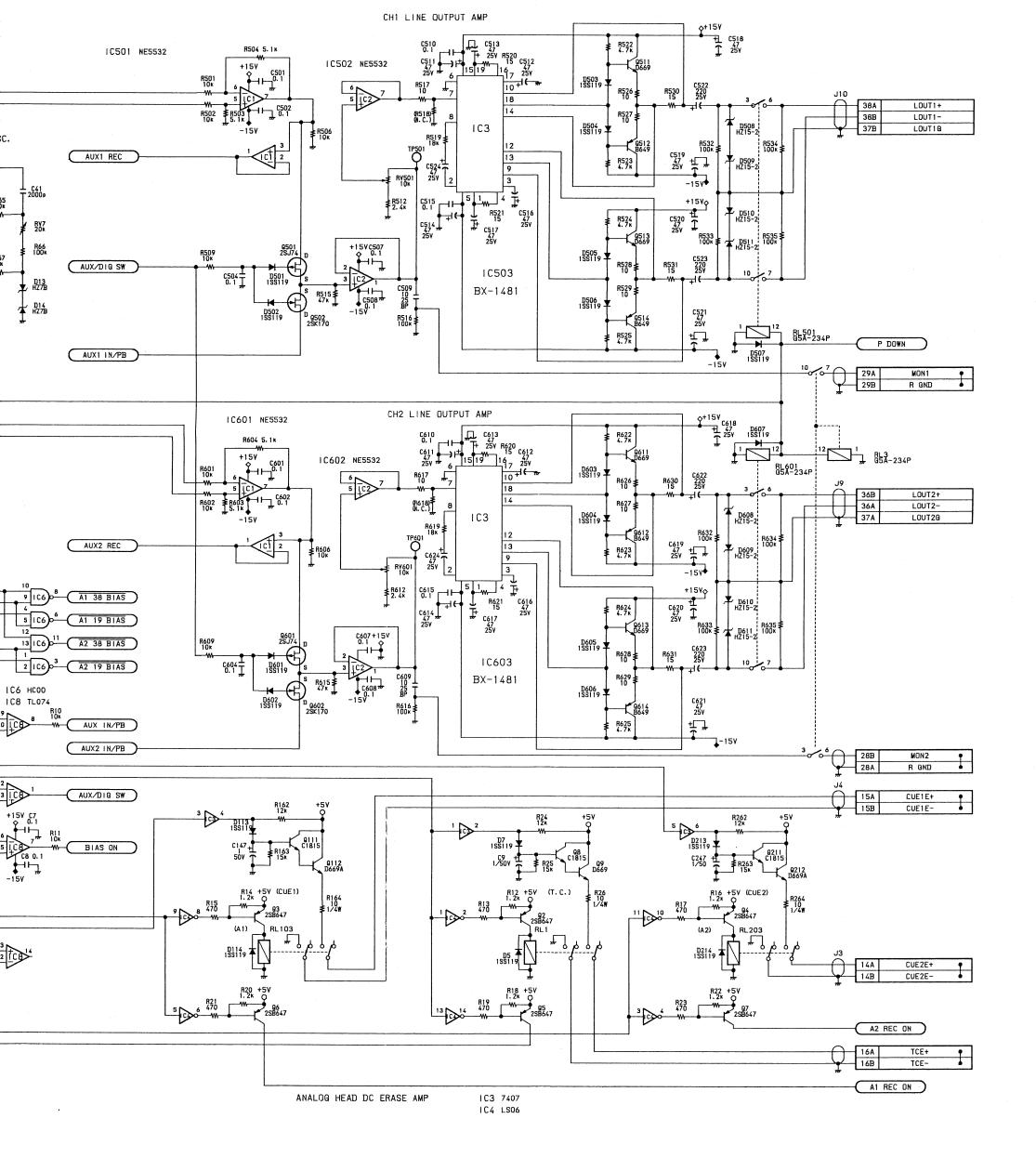




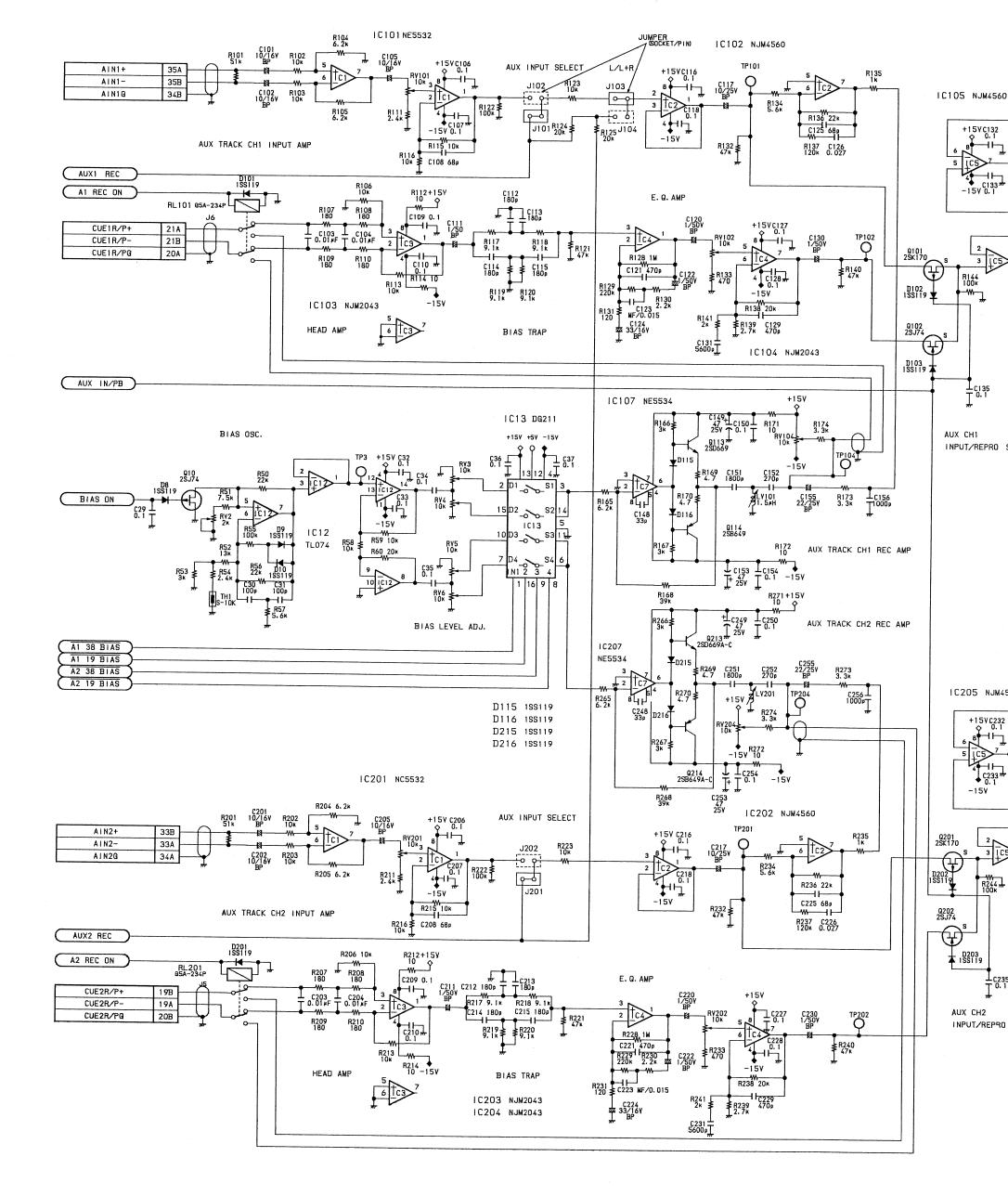
D301 188119

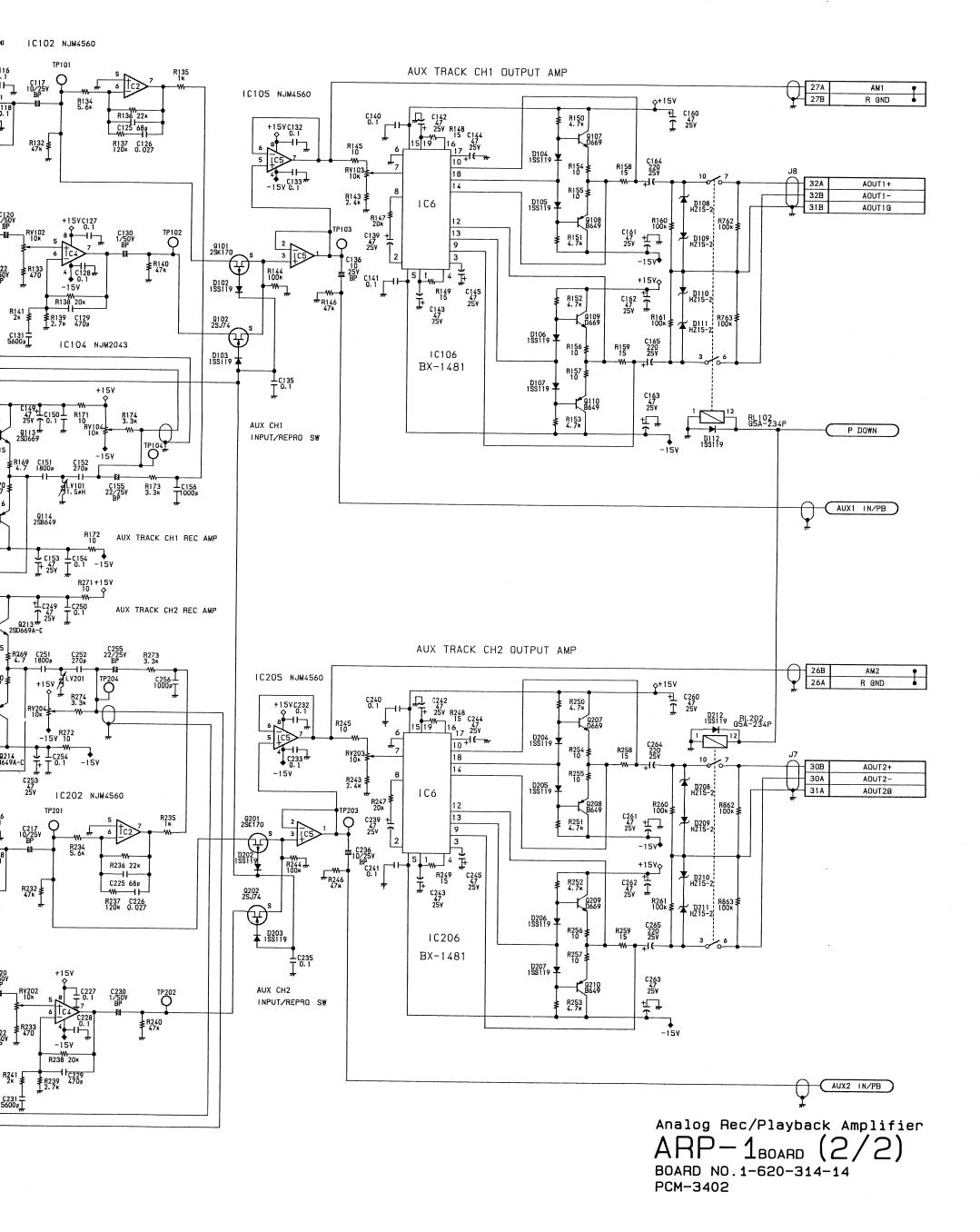
GND

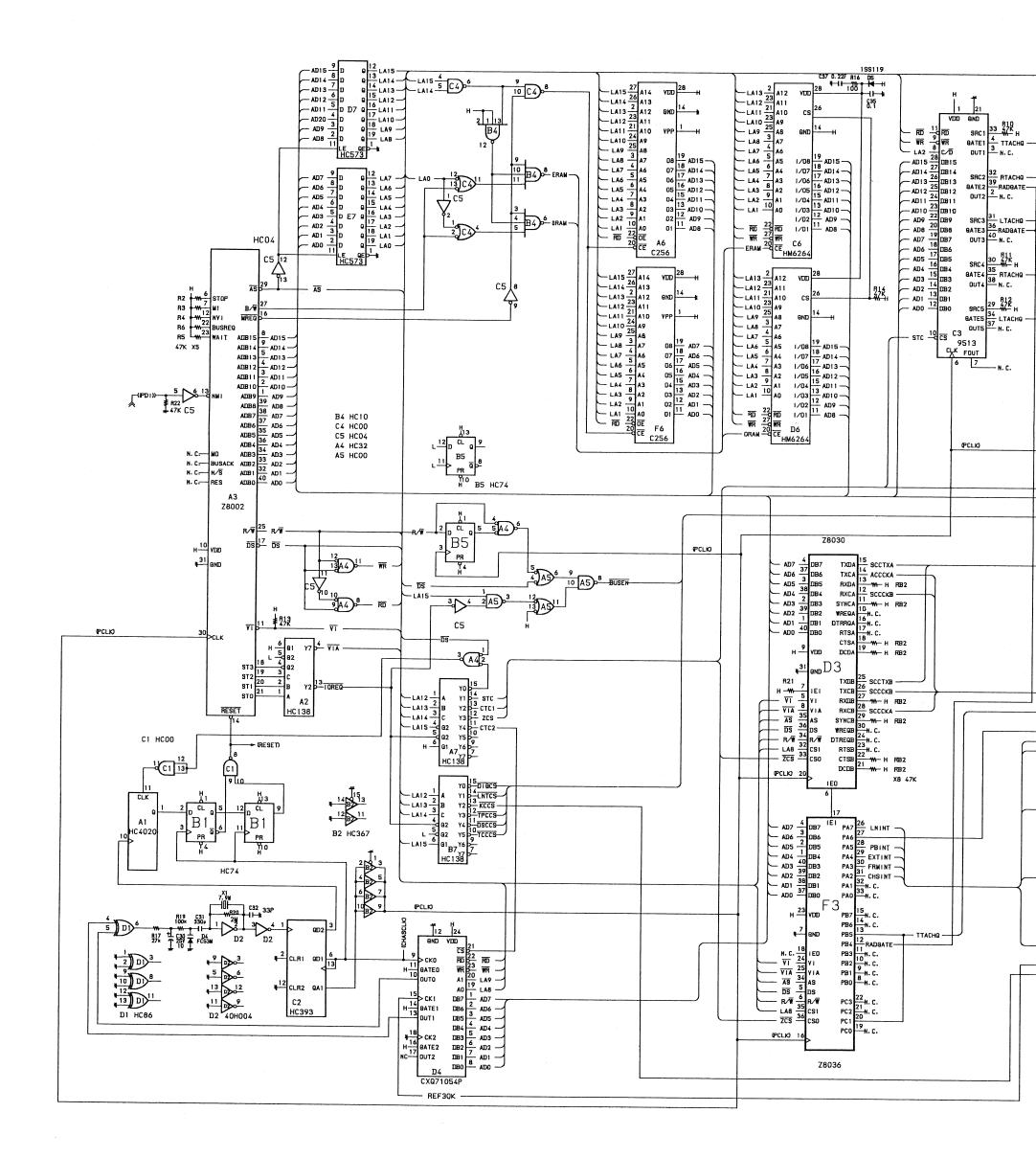
50B

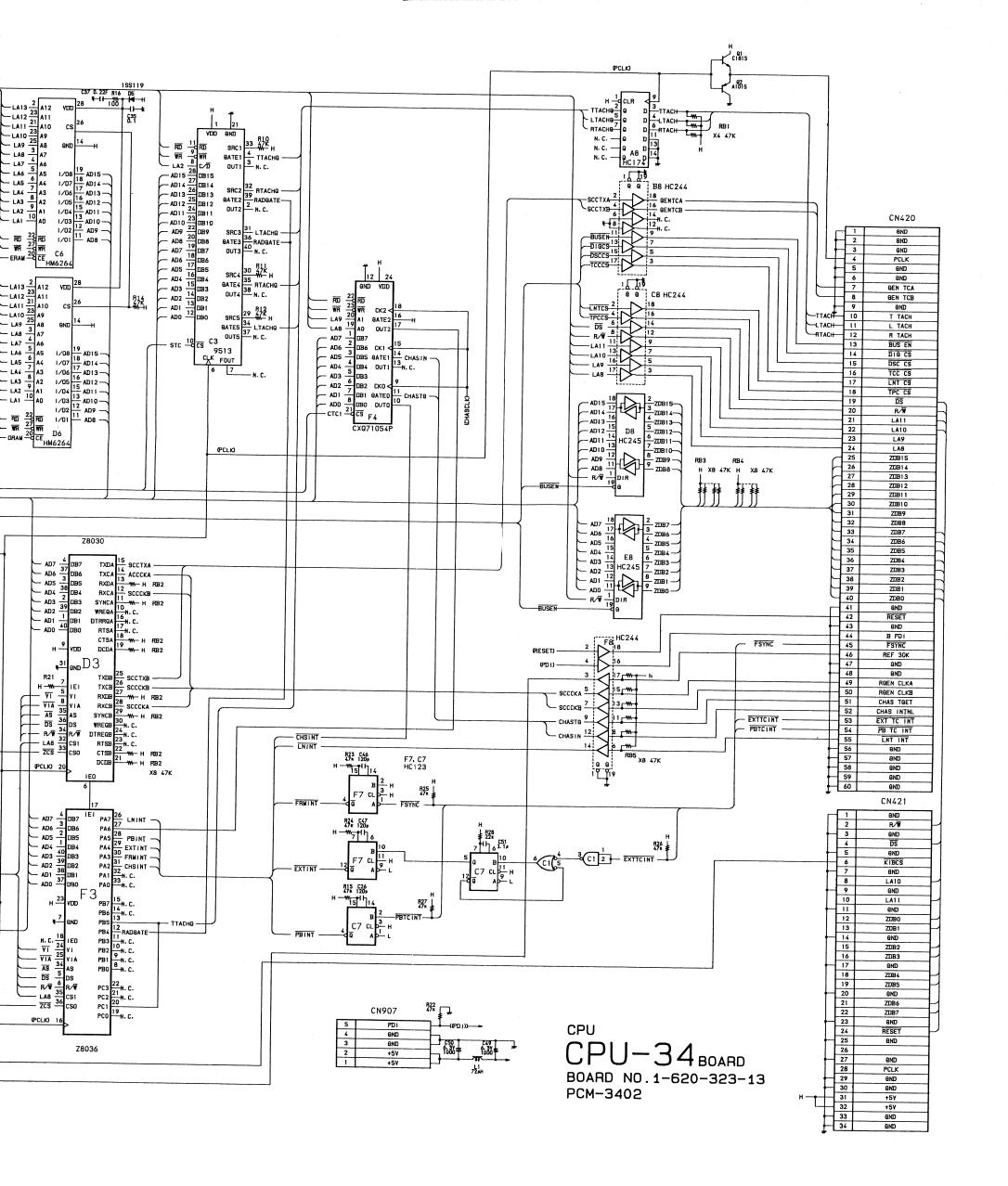


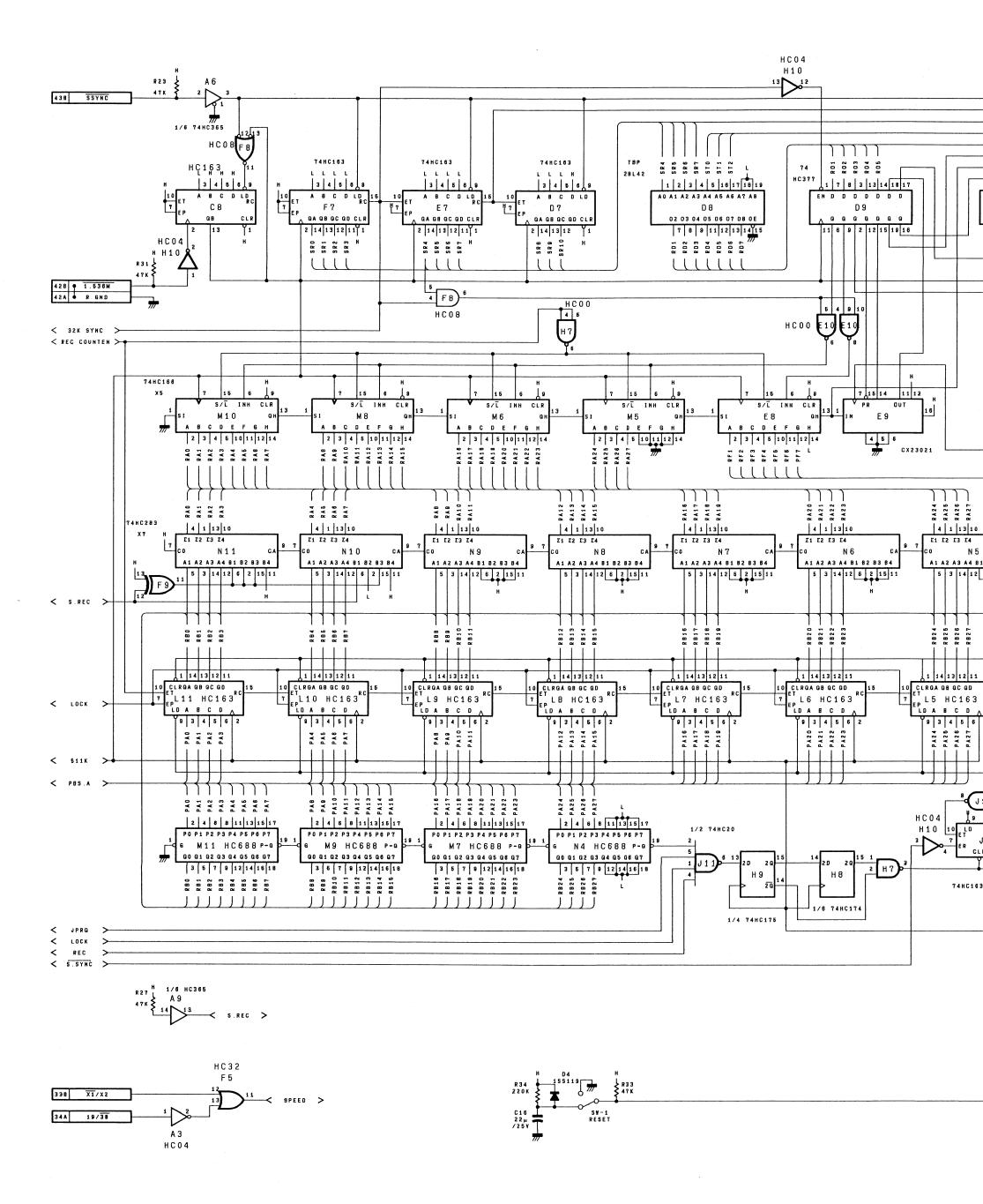
Analog Rec/Playback Amplifier $APP-1_{BOARD} (1/2)$ BOARD NO.1-620-314-14 PCM-3402

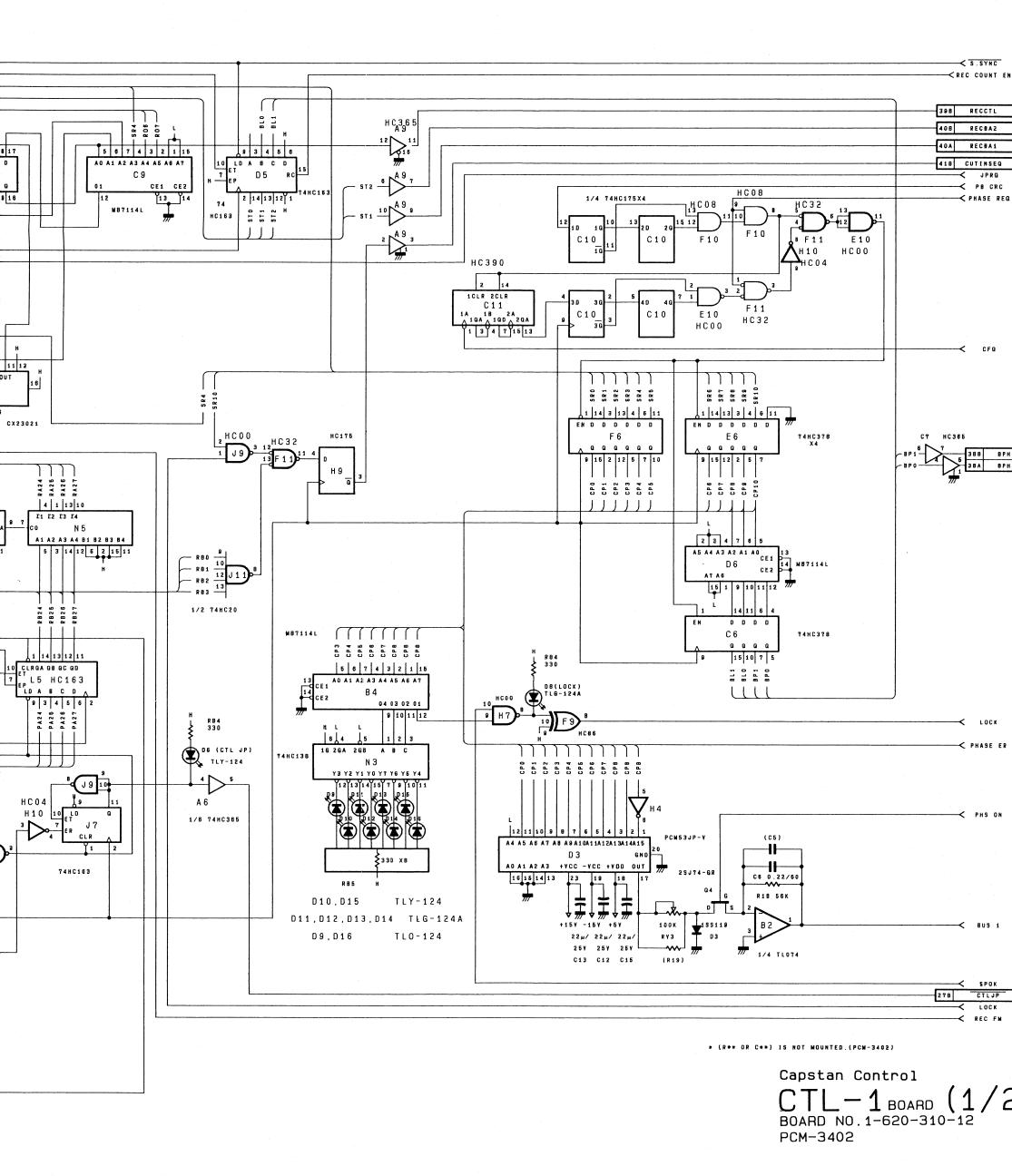


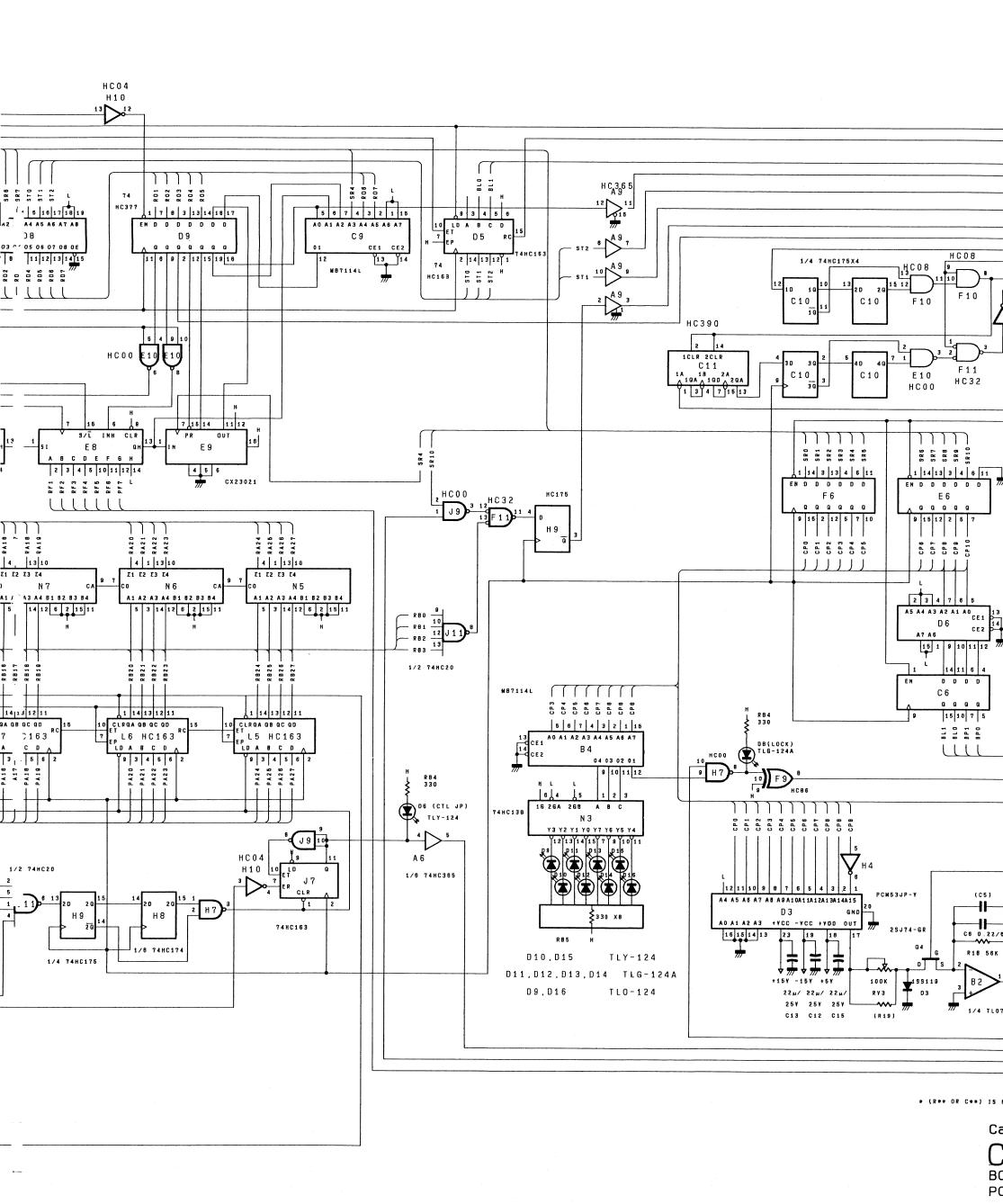


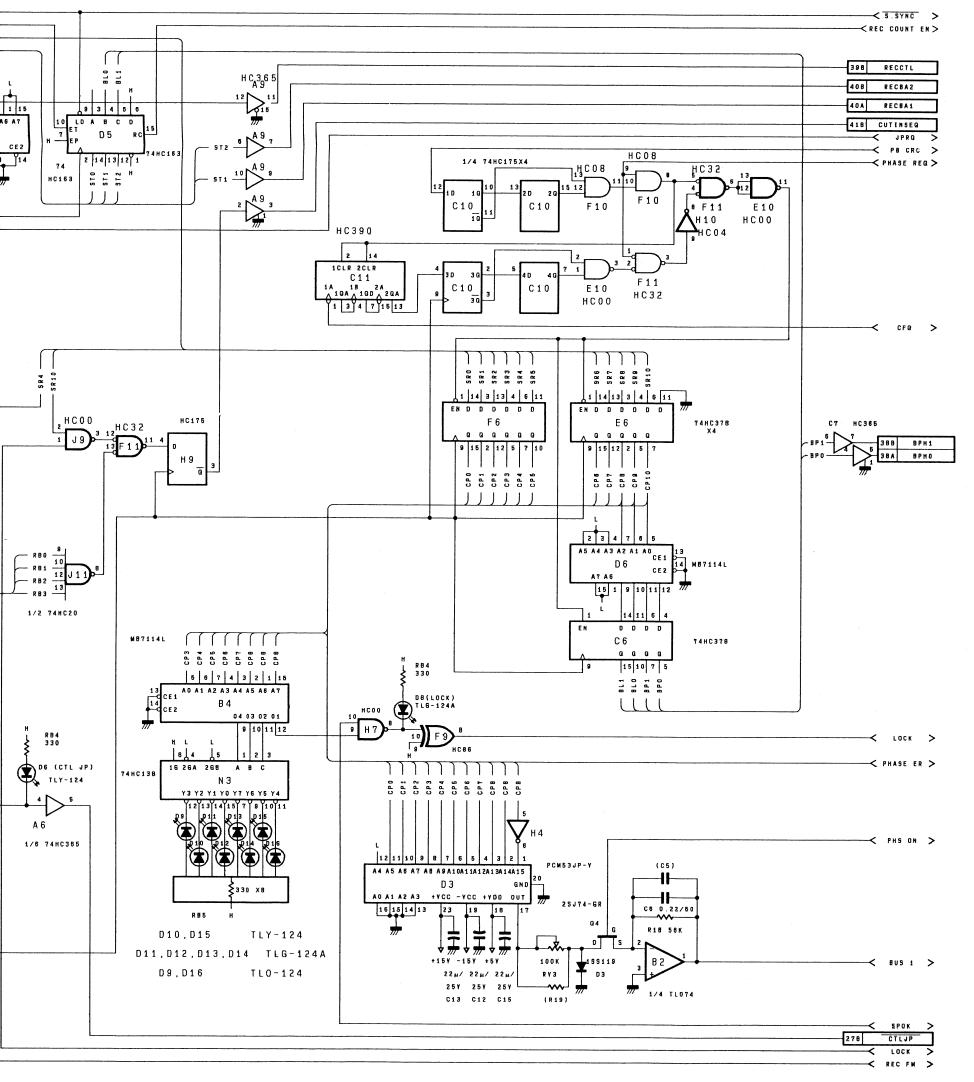












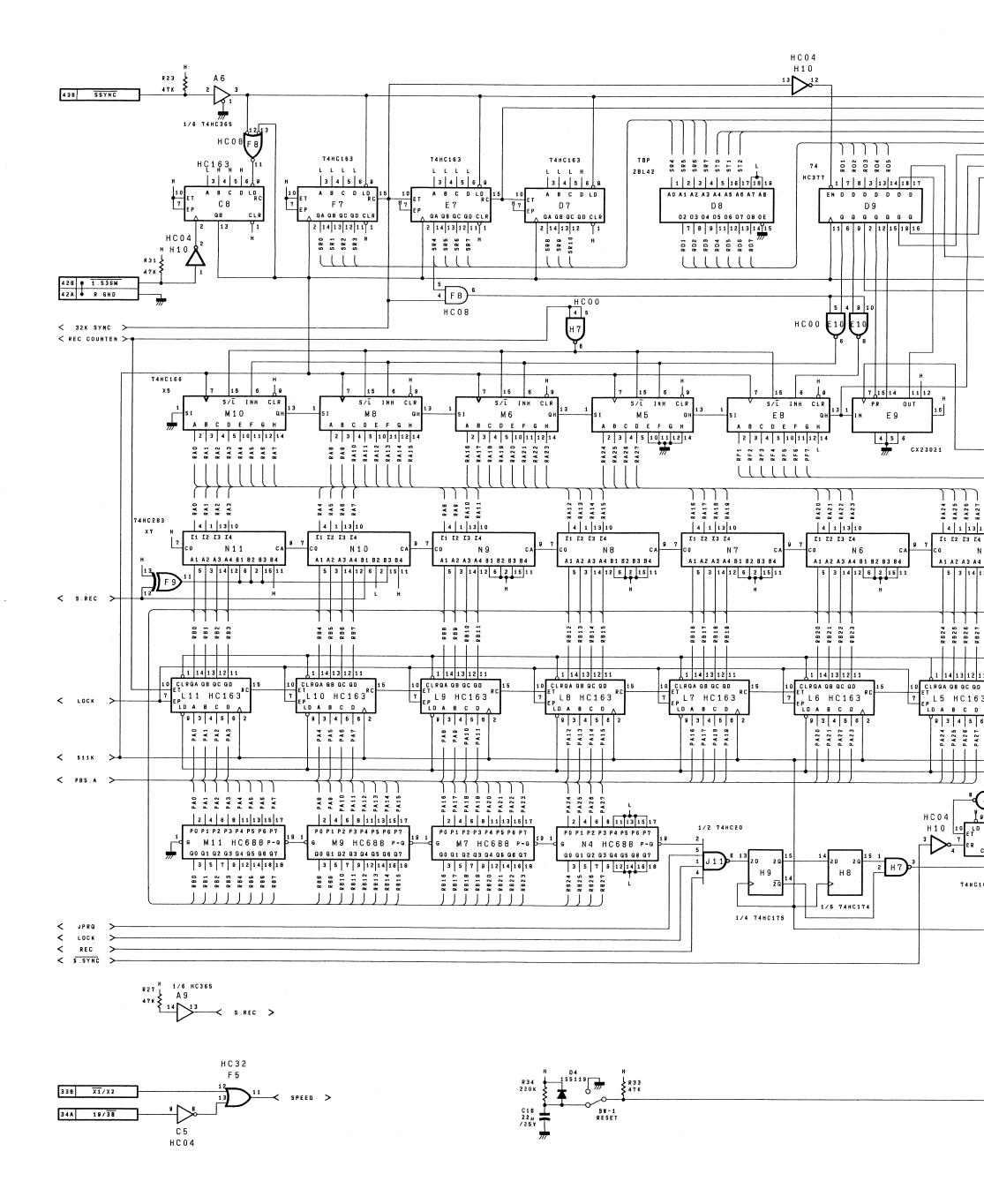
* (R** OR C**) IS NOT MOUNTED.(PCN-3402)

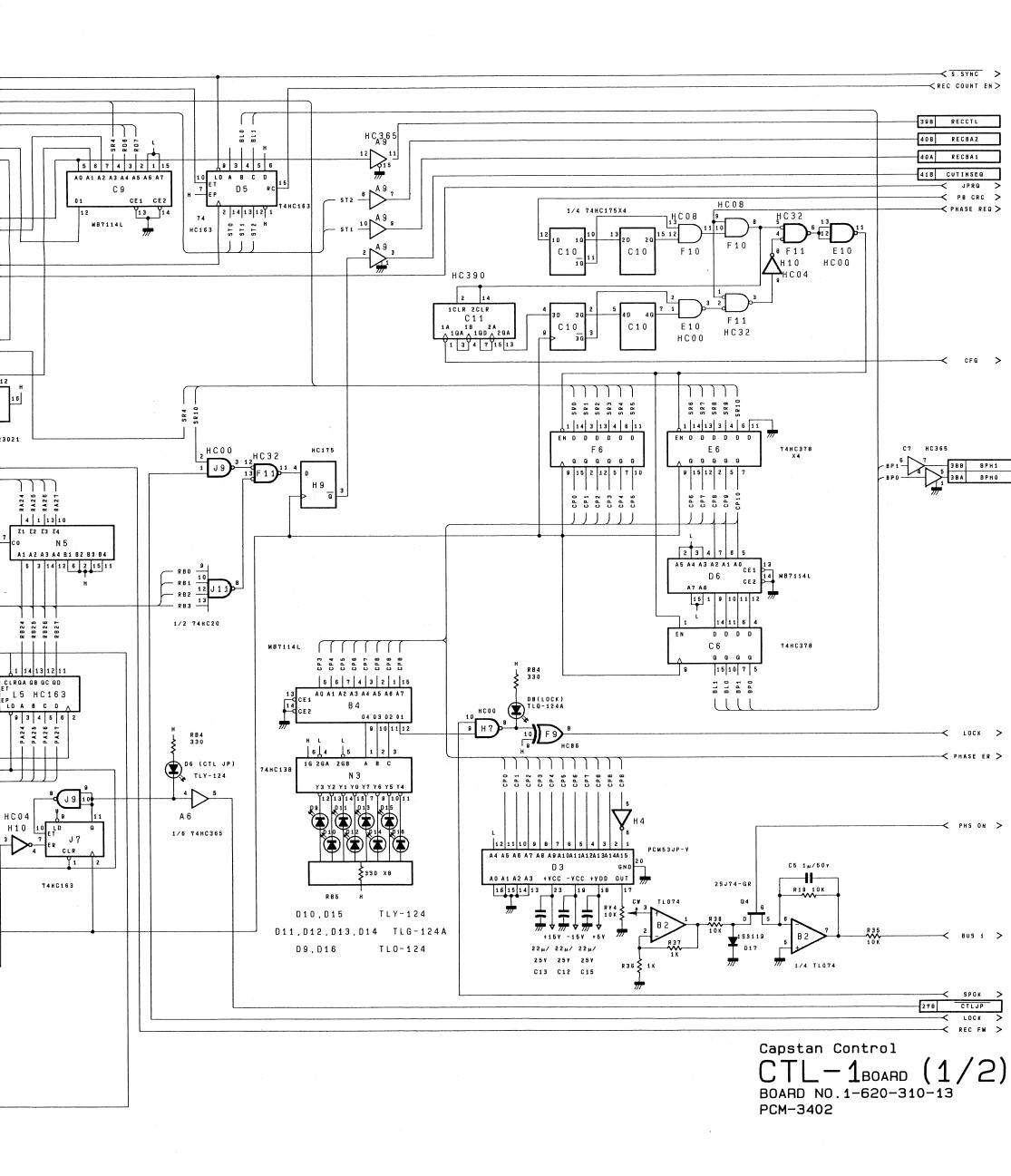
Capstan Control

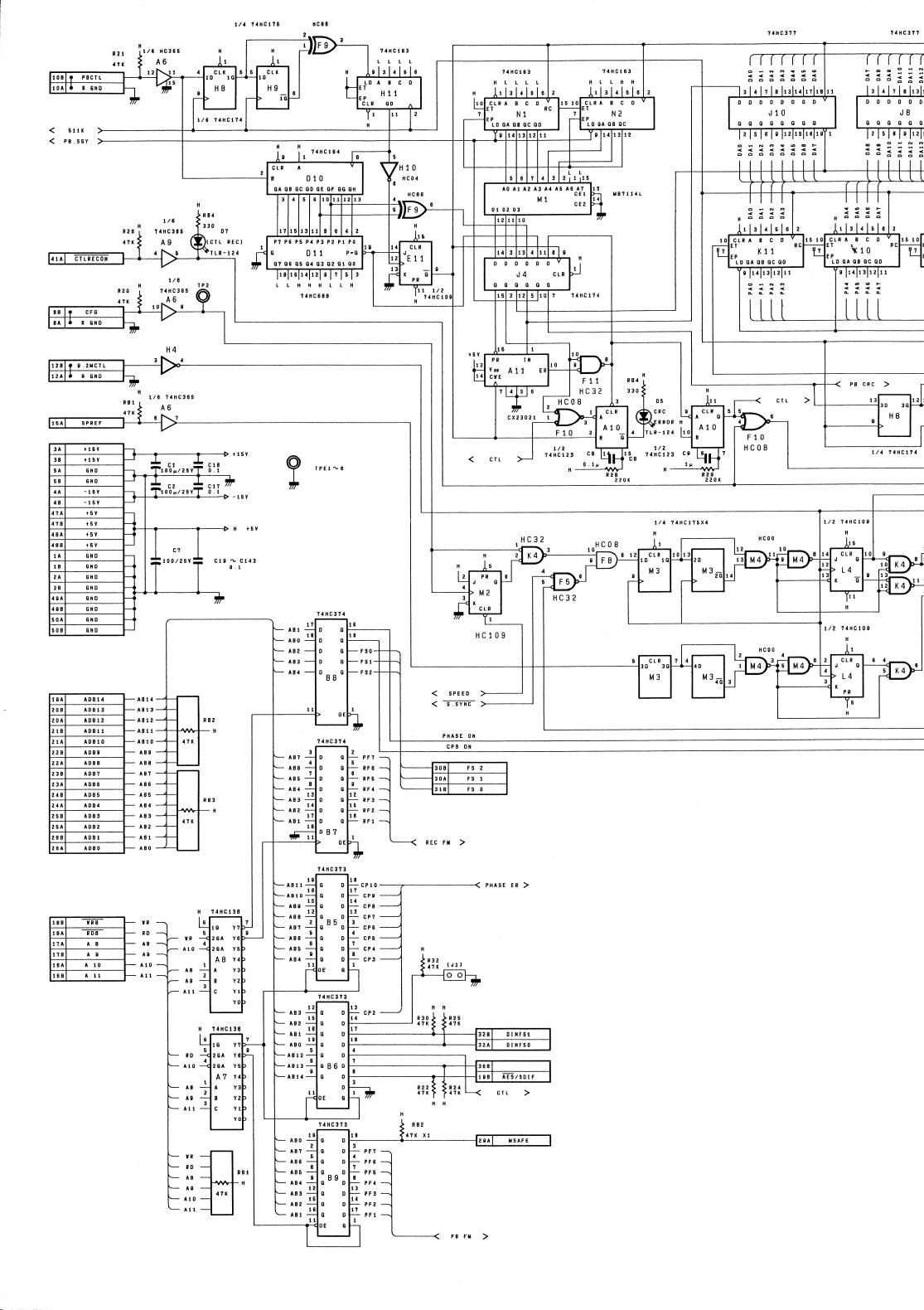
CTL-1 BOARD (1/2)

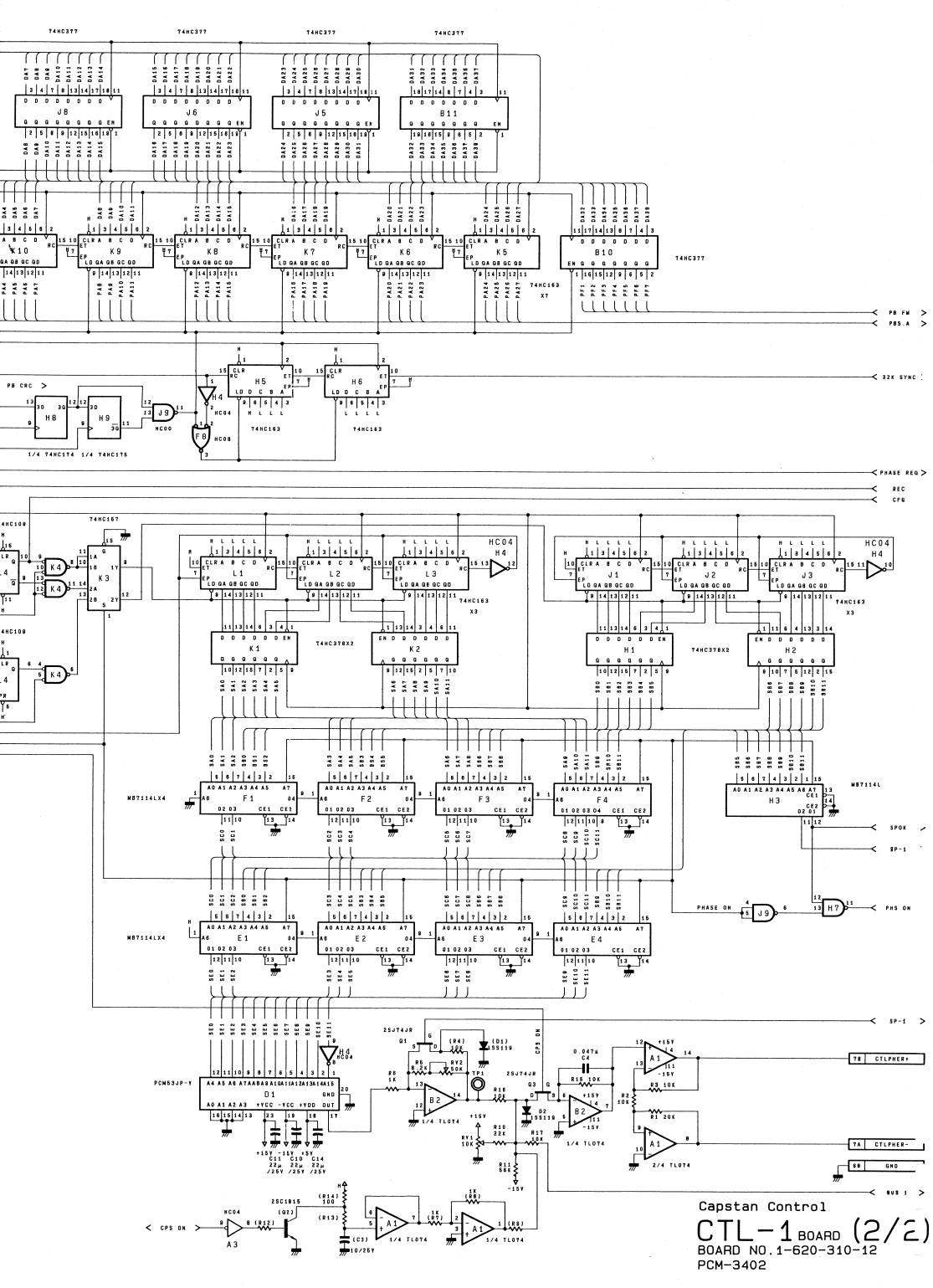
BOARD NO.1-620-310-12

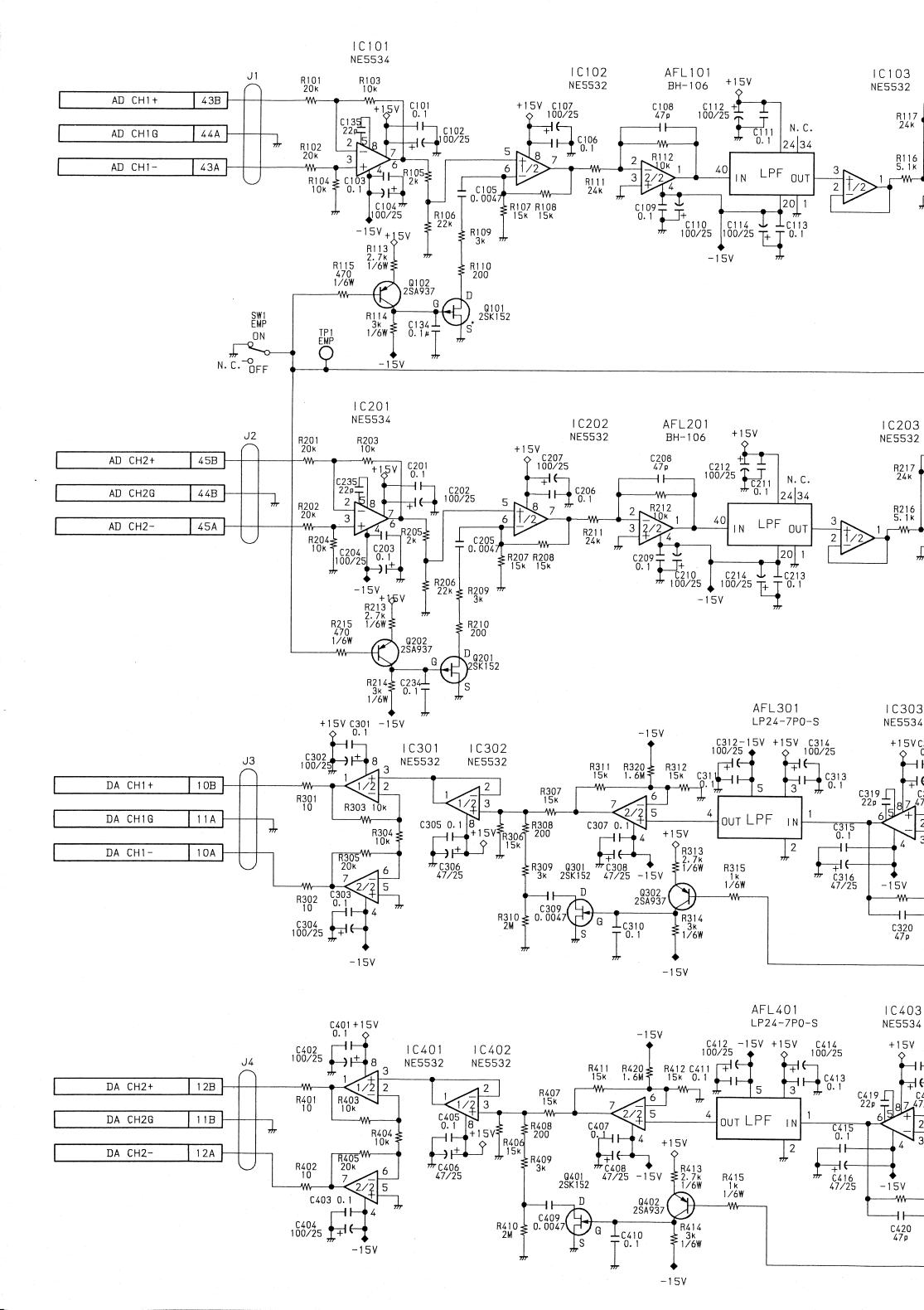
PCM-3402

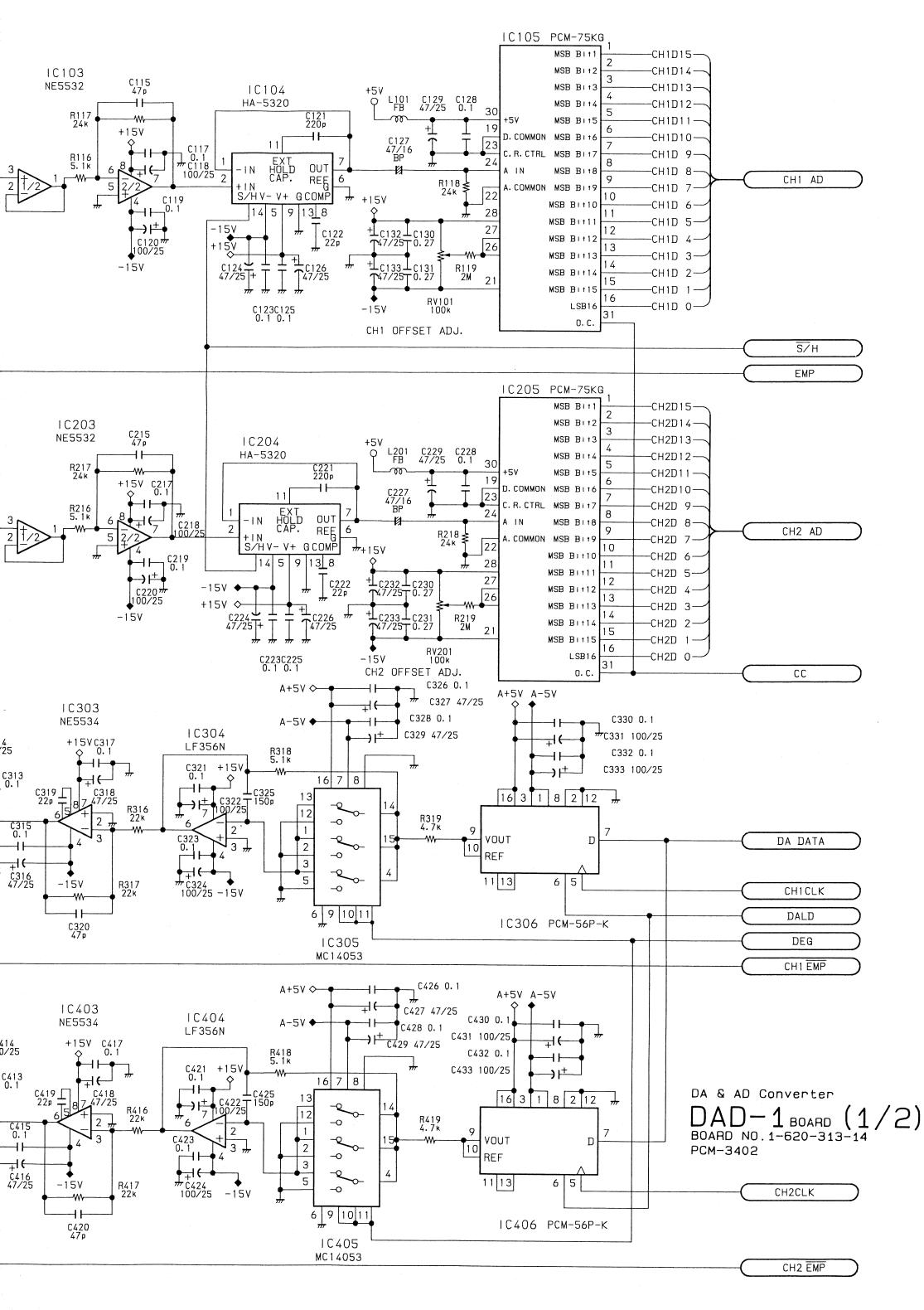


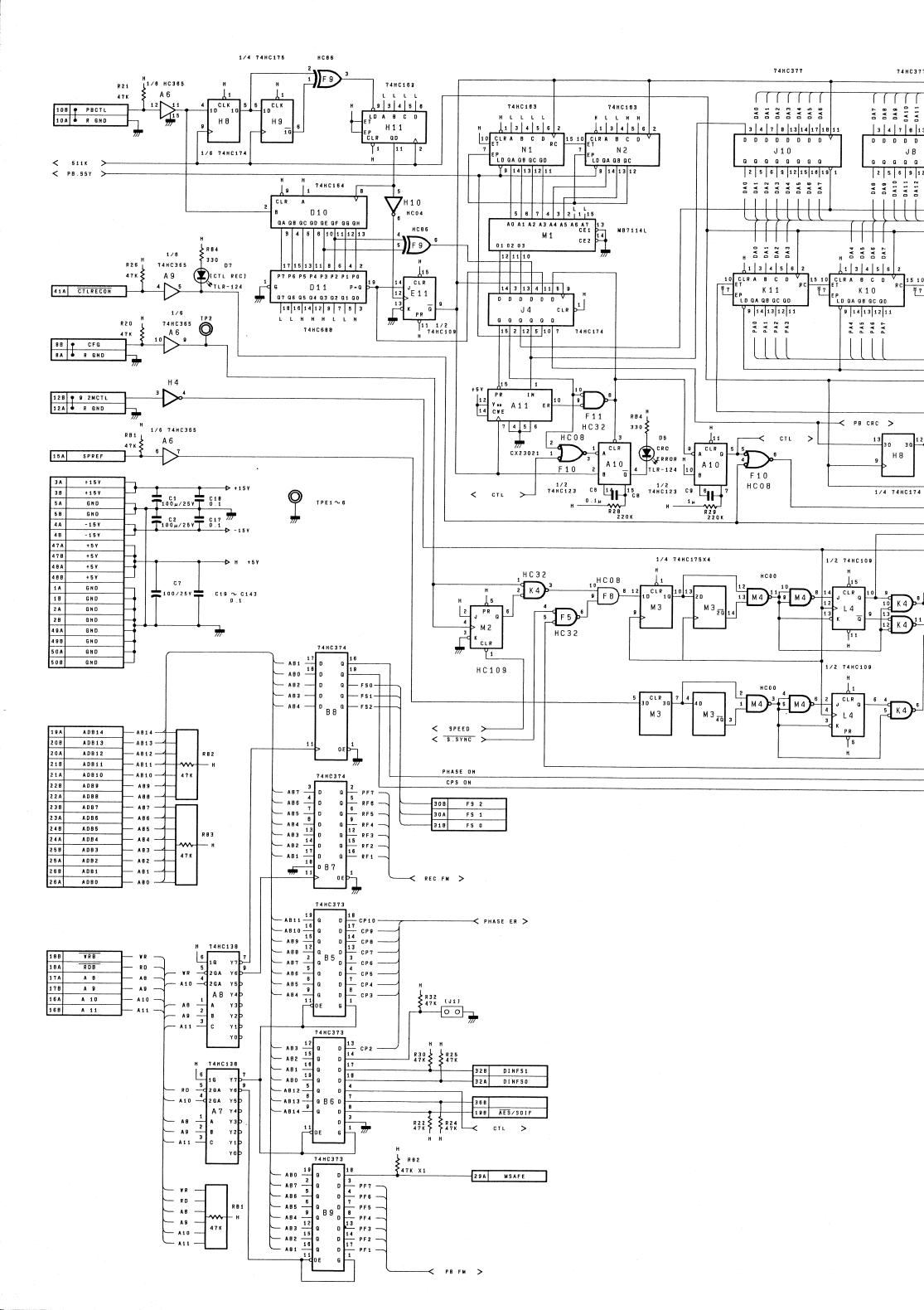


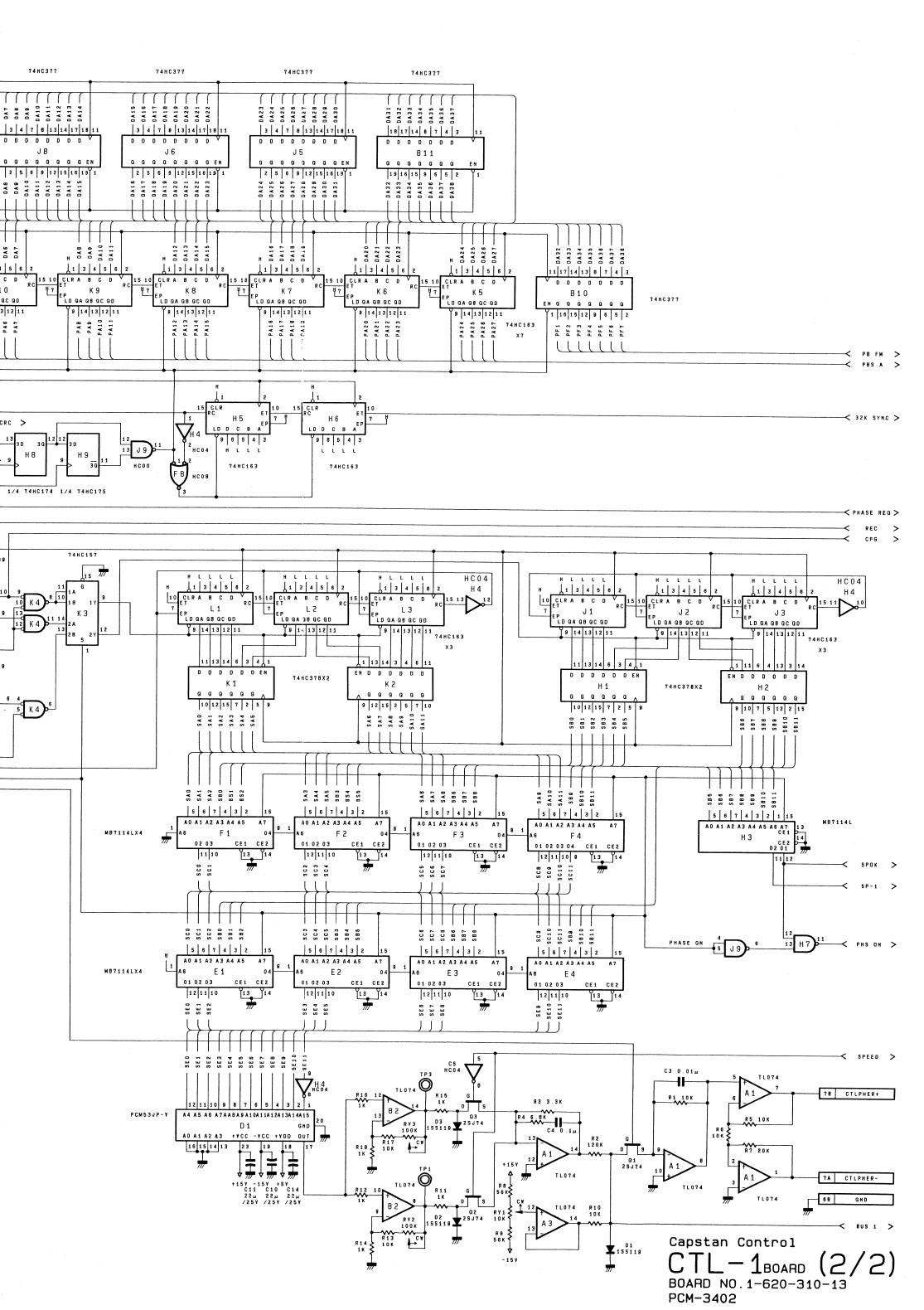


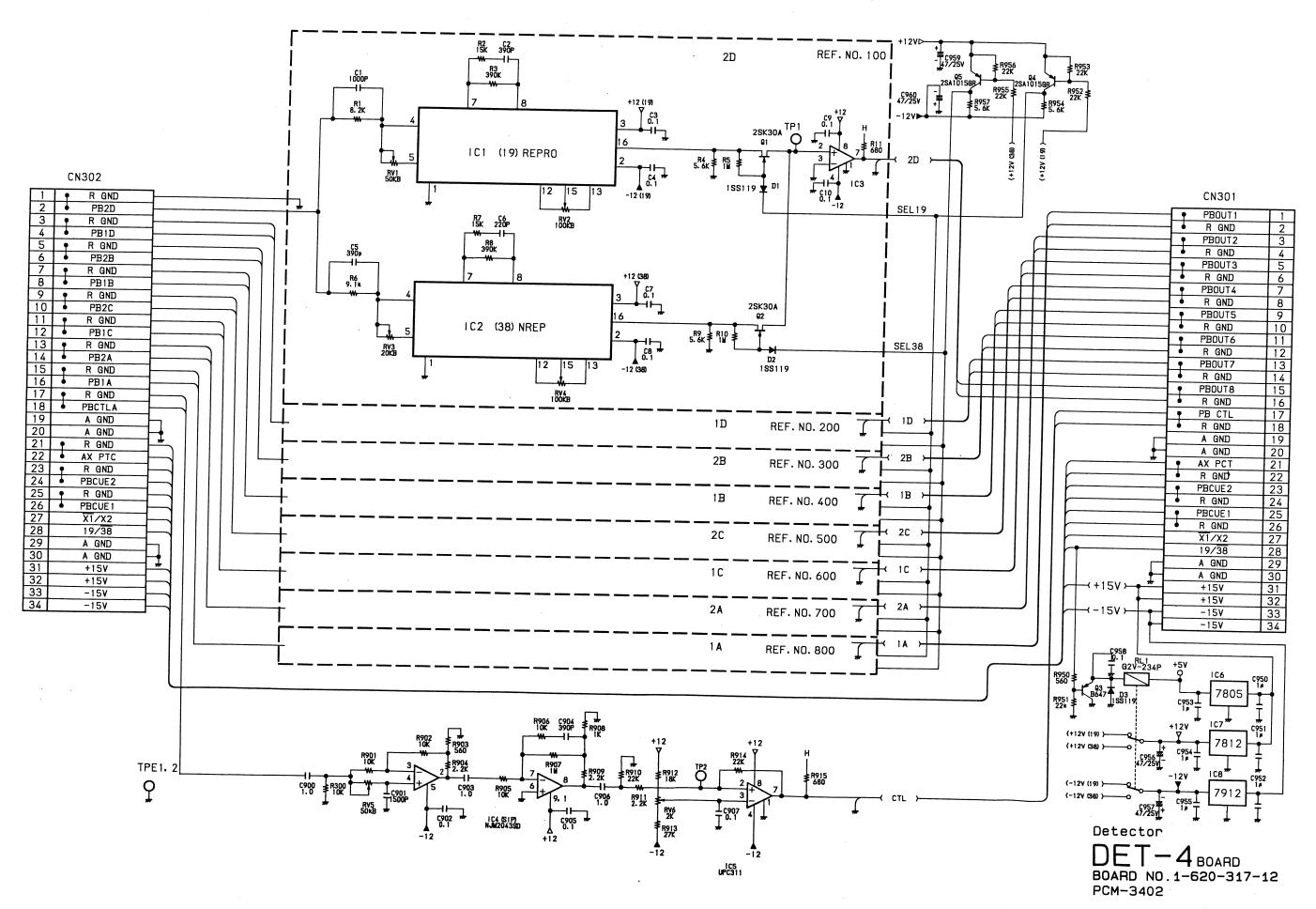


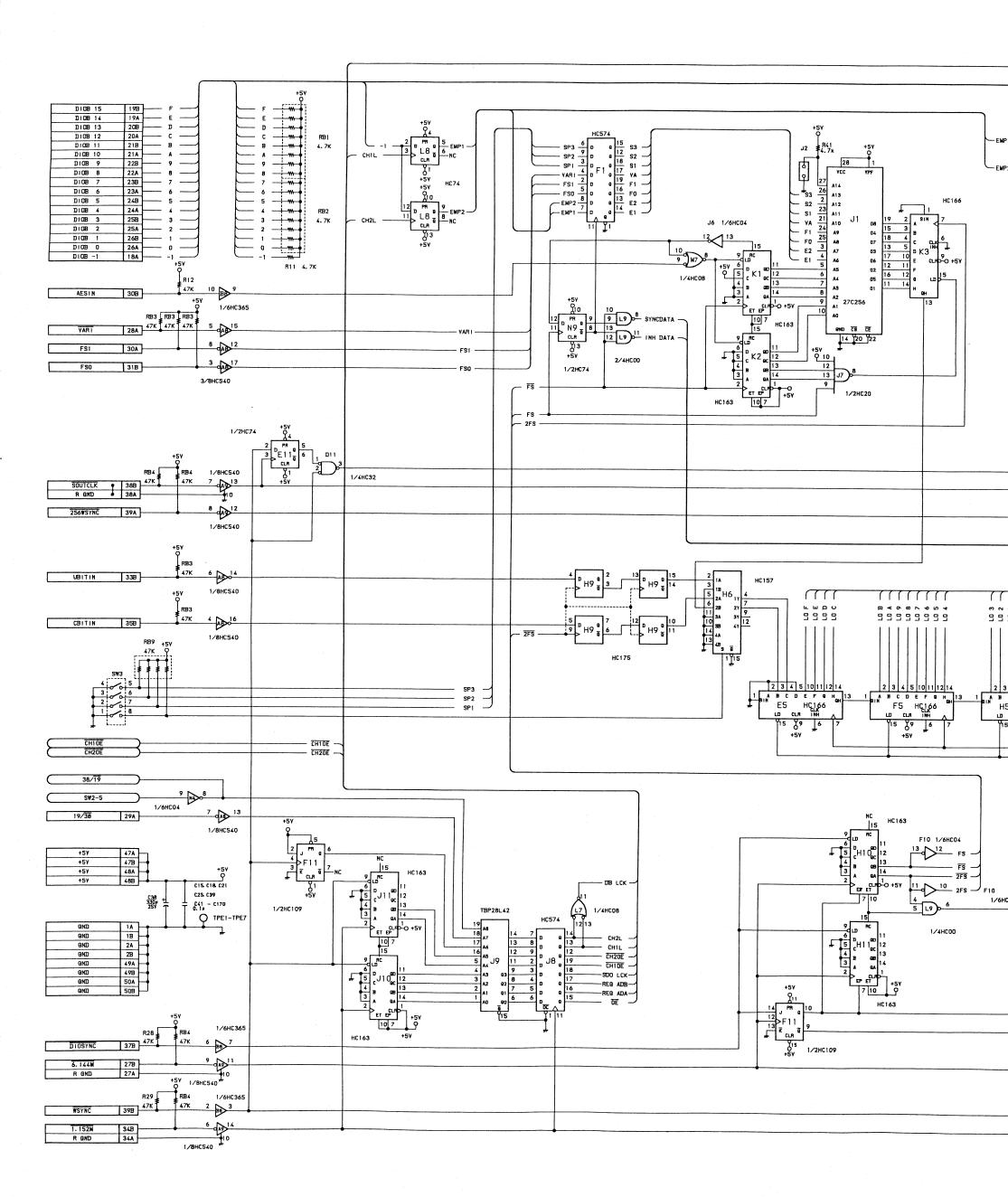


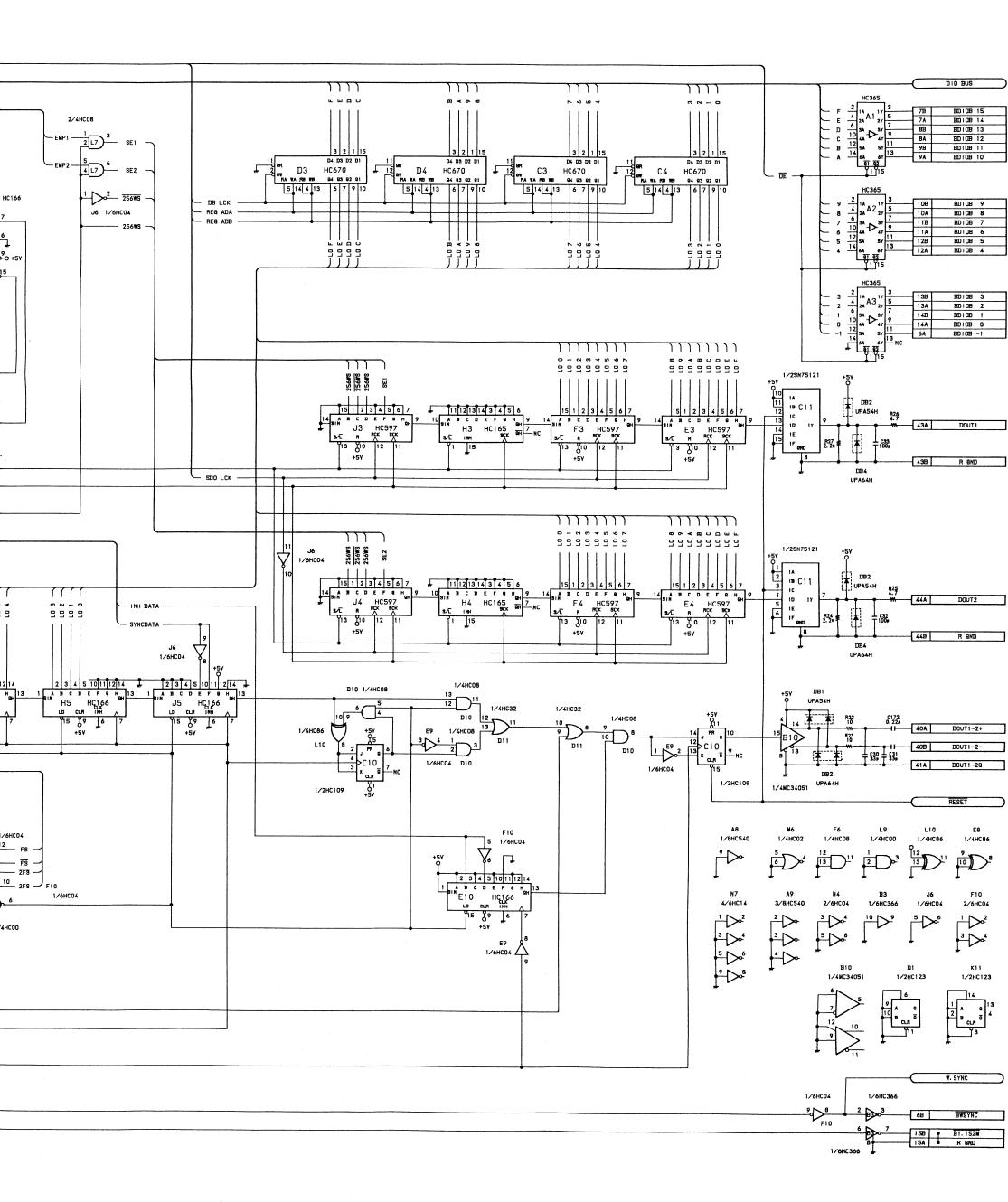


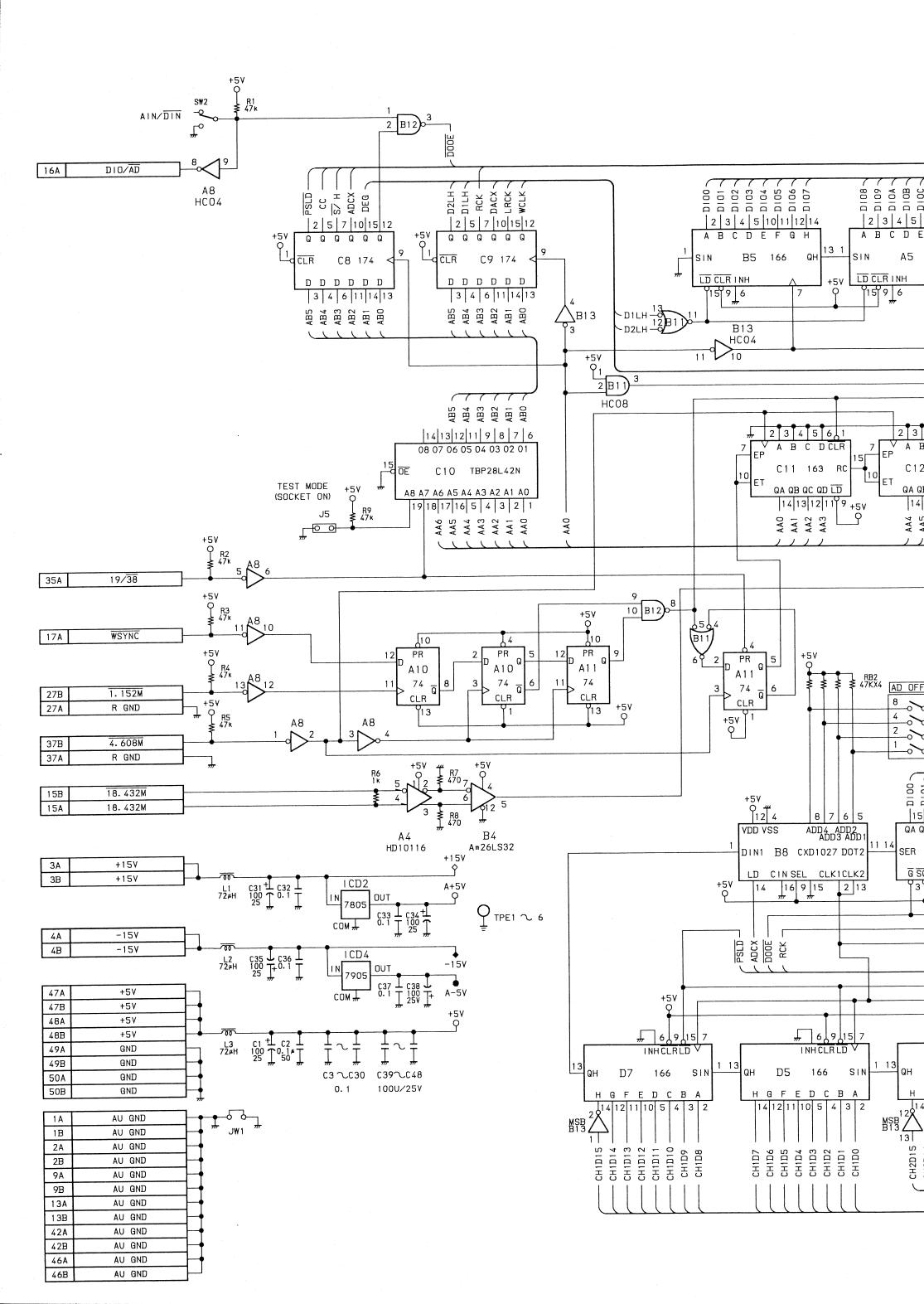


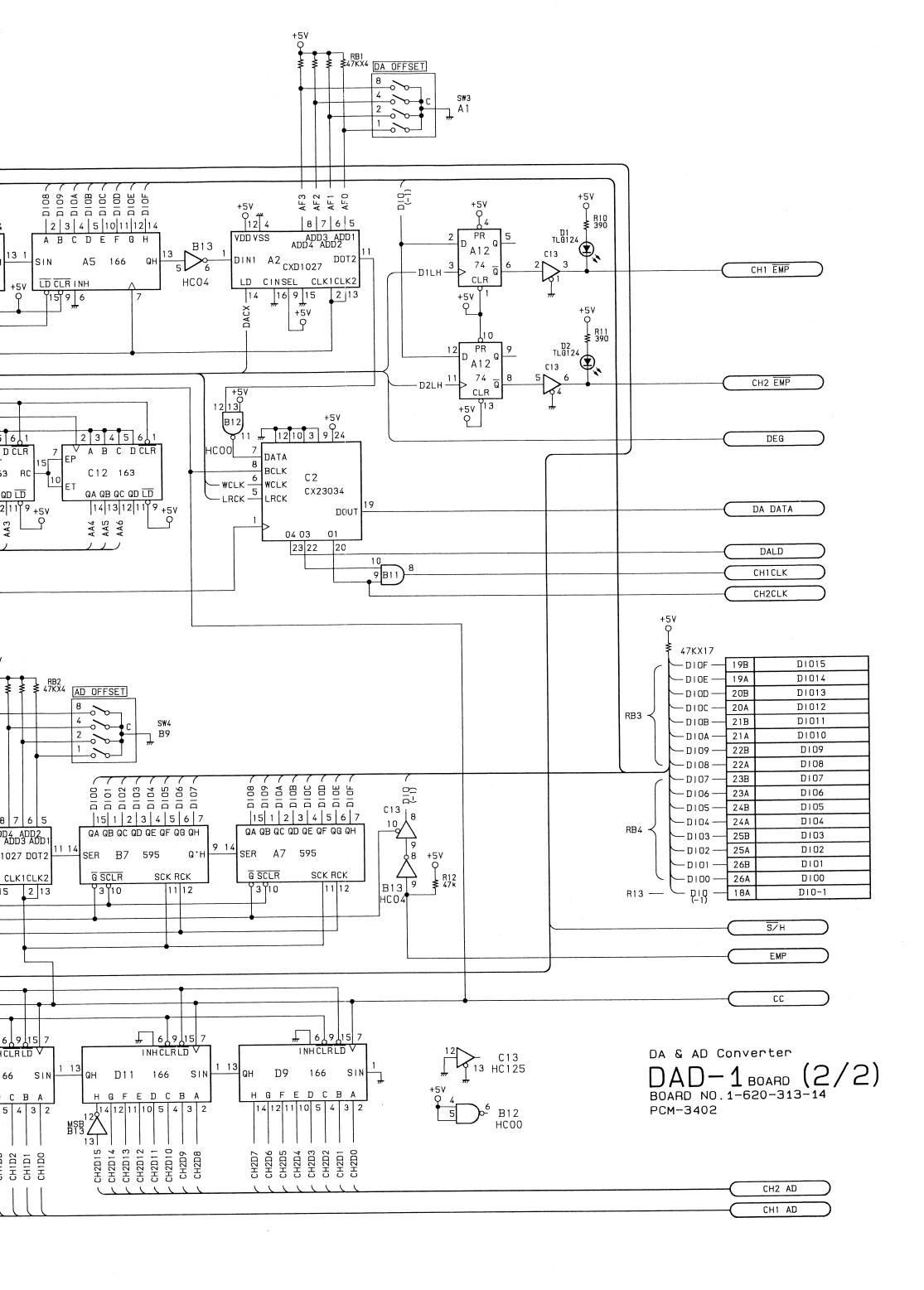


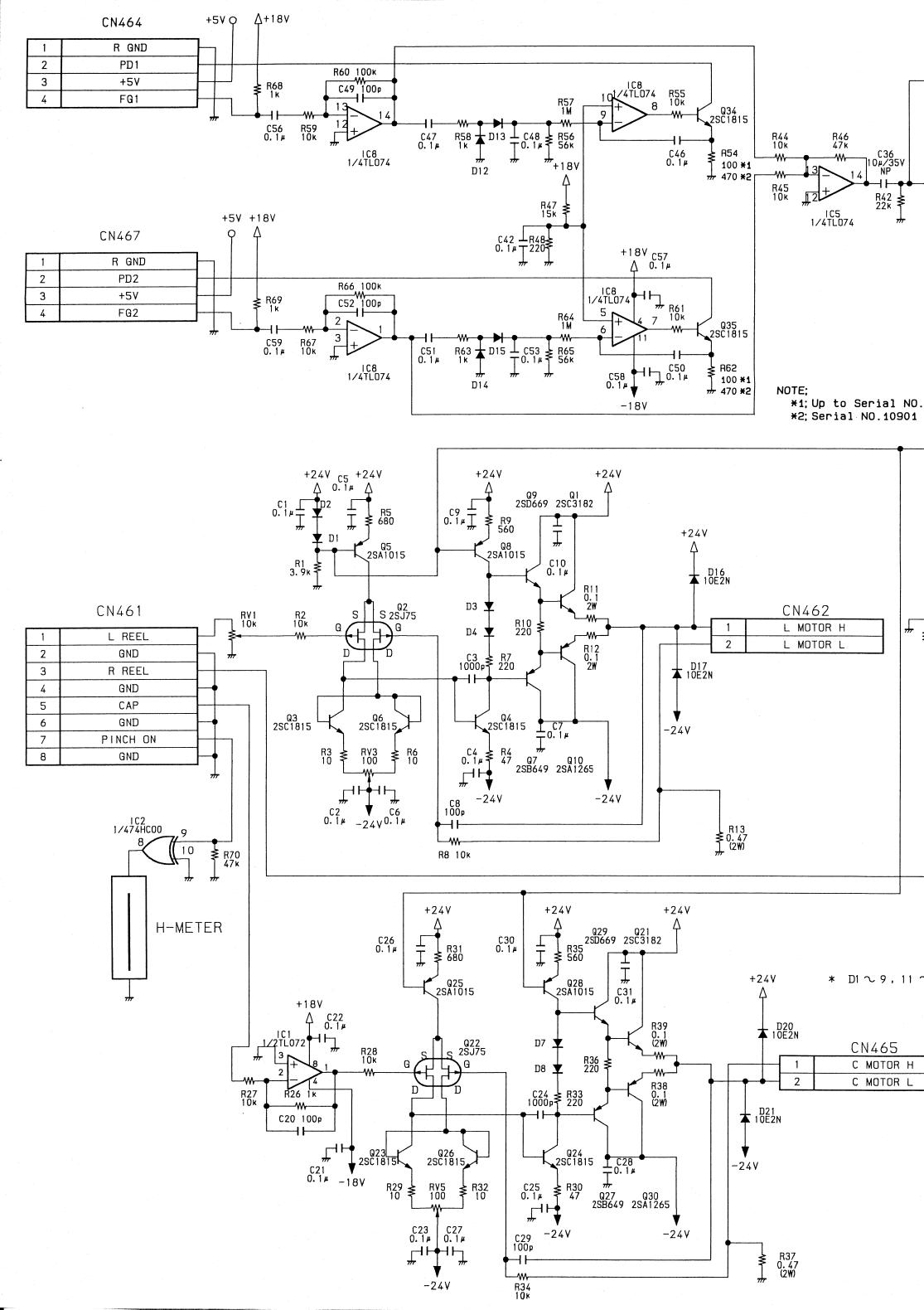


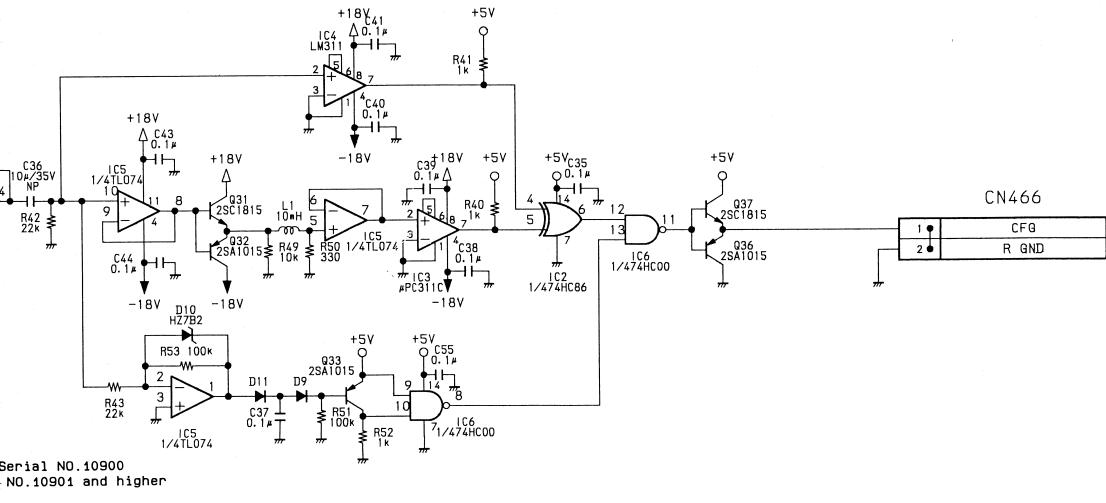


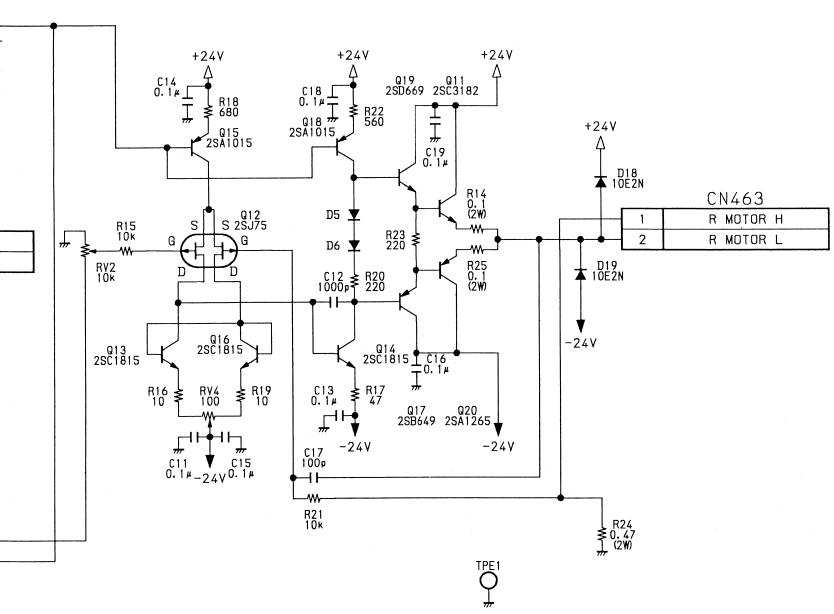


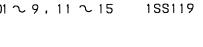












CN465				
С	MOTOR	Н		
С	MOTOR	L		

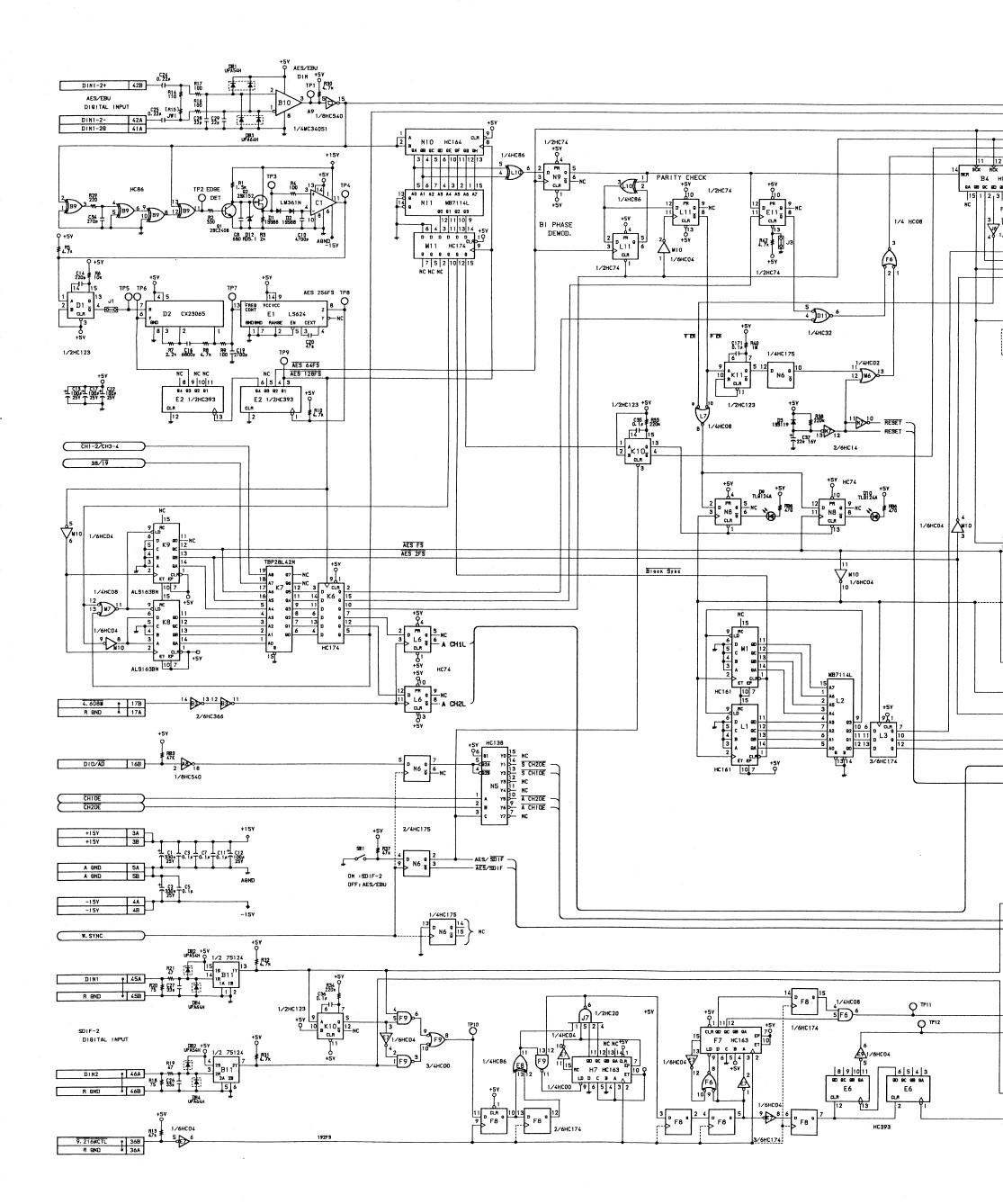
	CN909	+24V +18V Δ Δ IC7
1	+24V	7818A
2	GND	C32 T
3	-24V	357 🗼 🗼 257
4	GND	109
5	+5V	7918A +
6	GND	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$

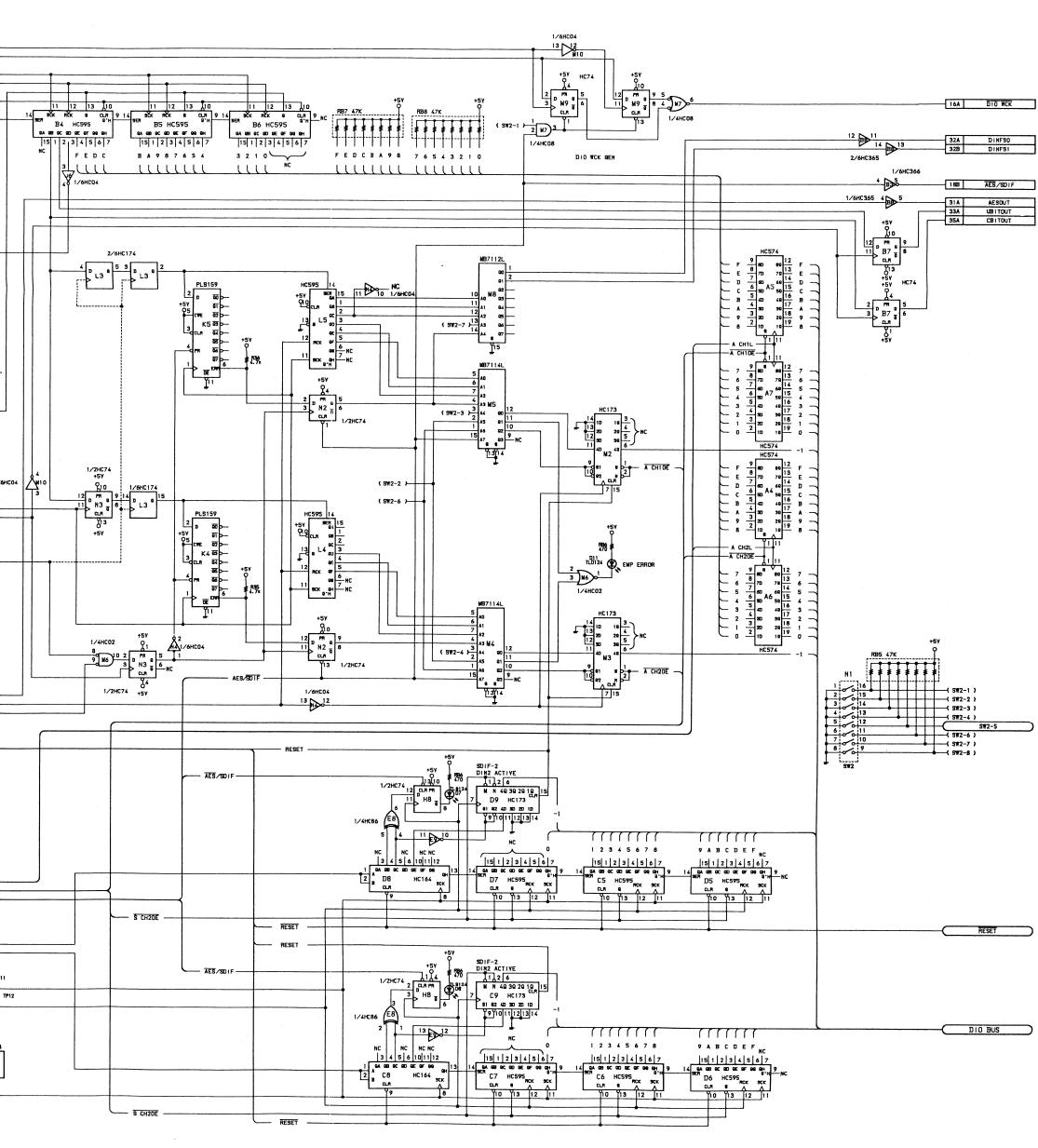
Motor Driver

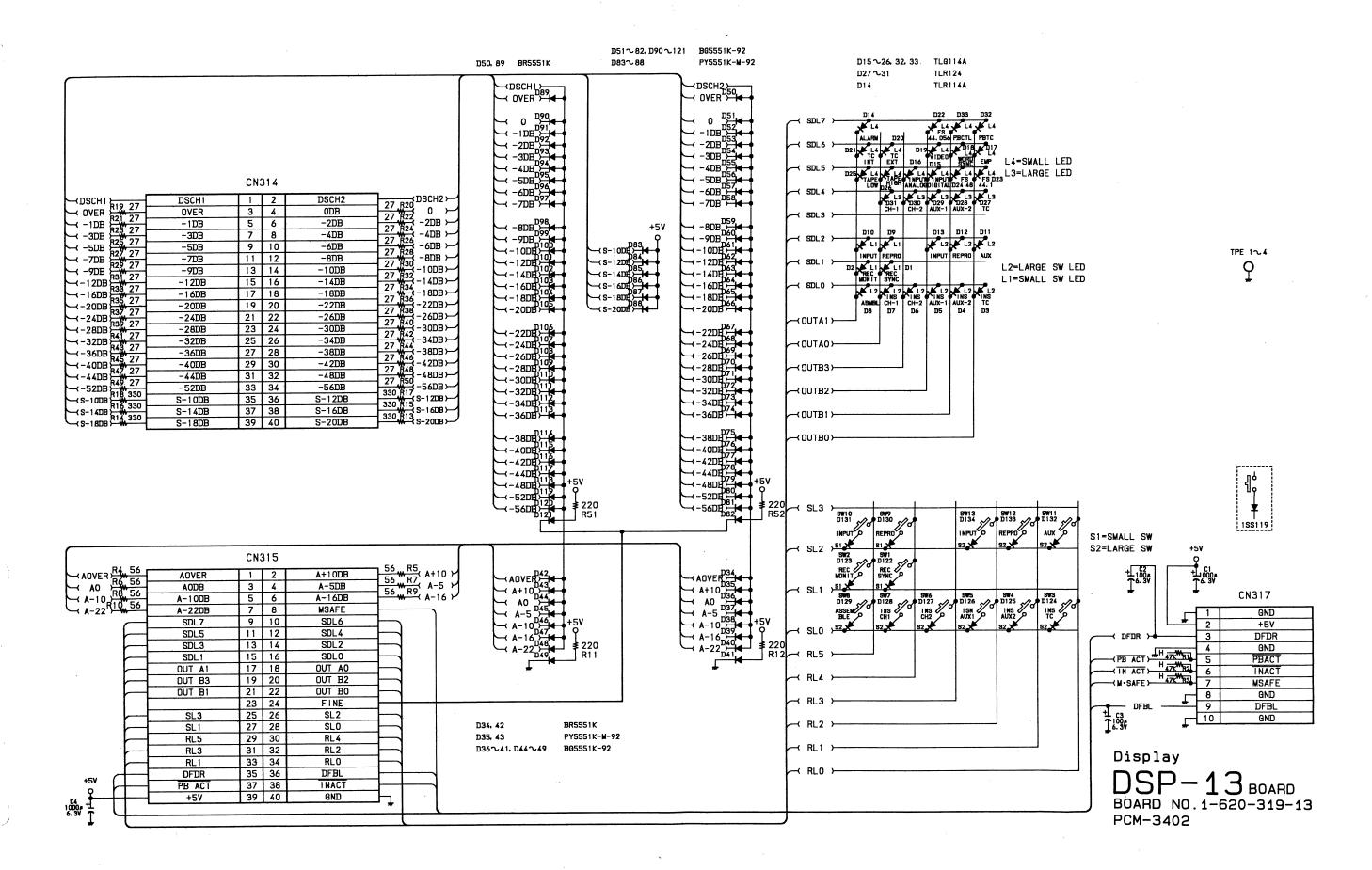
DR-54

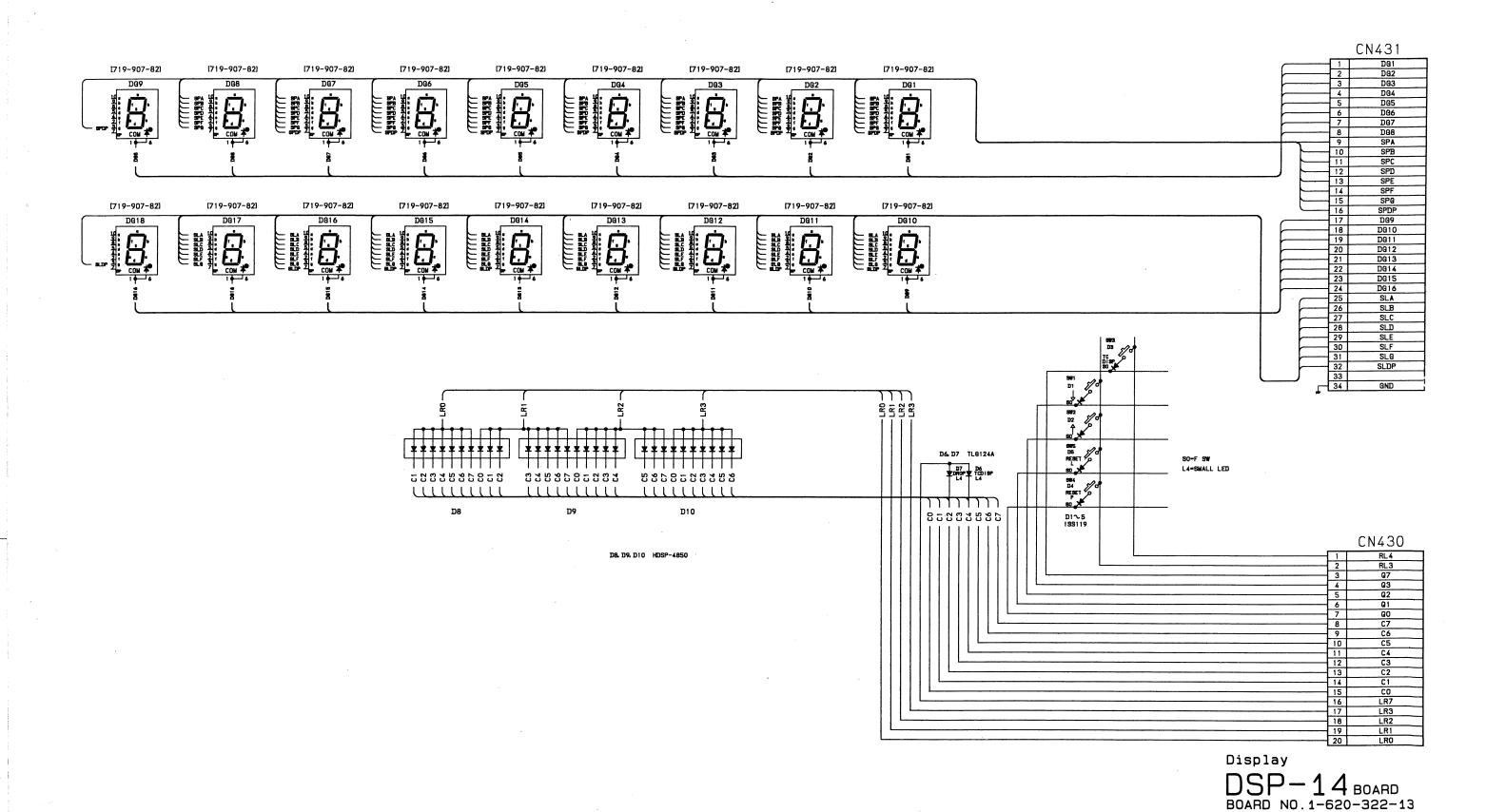
BOARD NO.1-620-325-13

PCM-3402



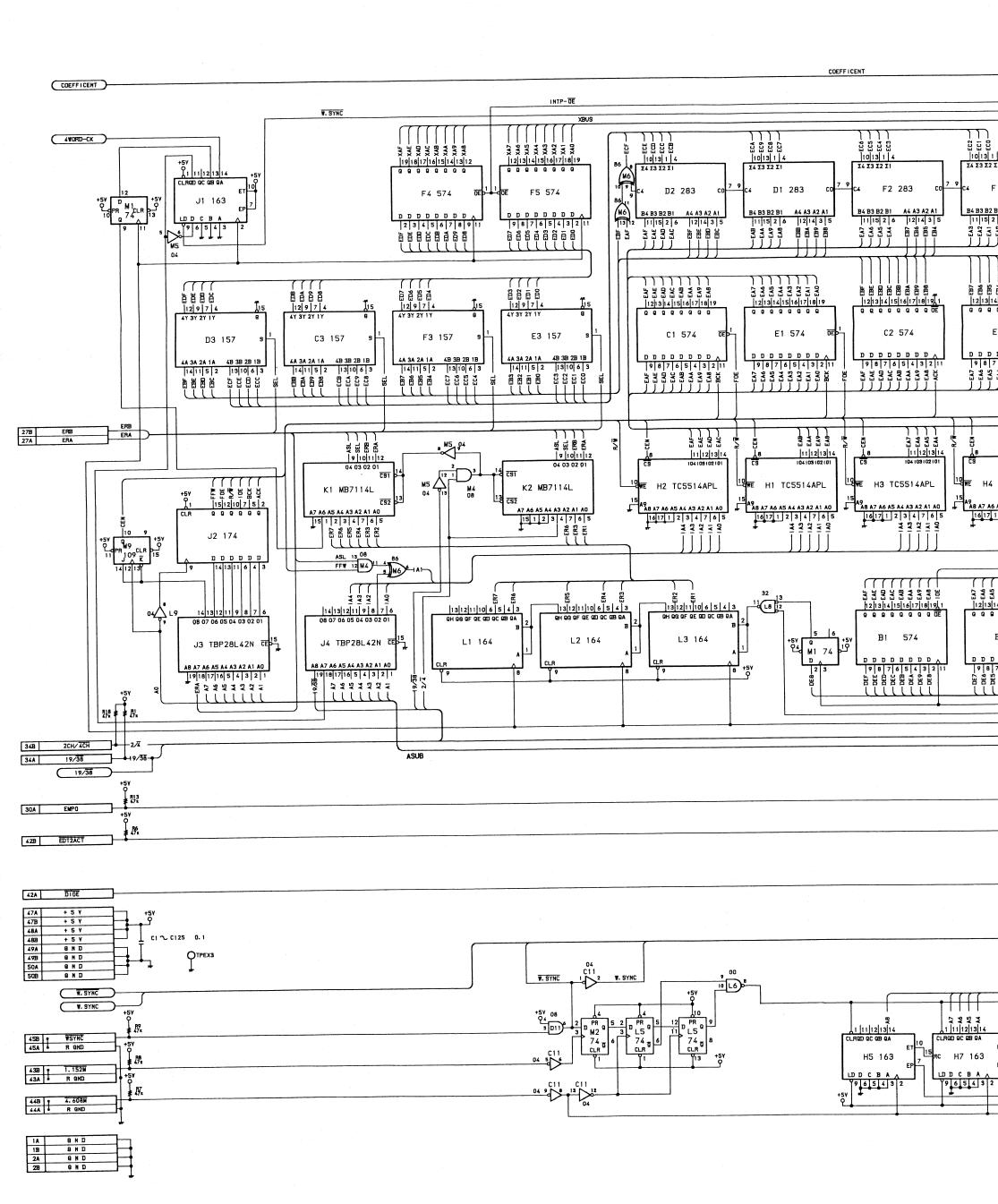


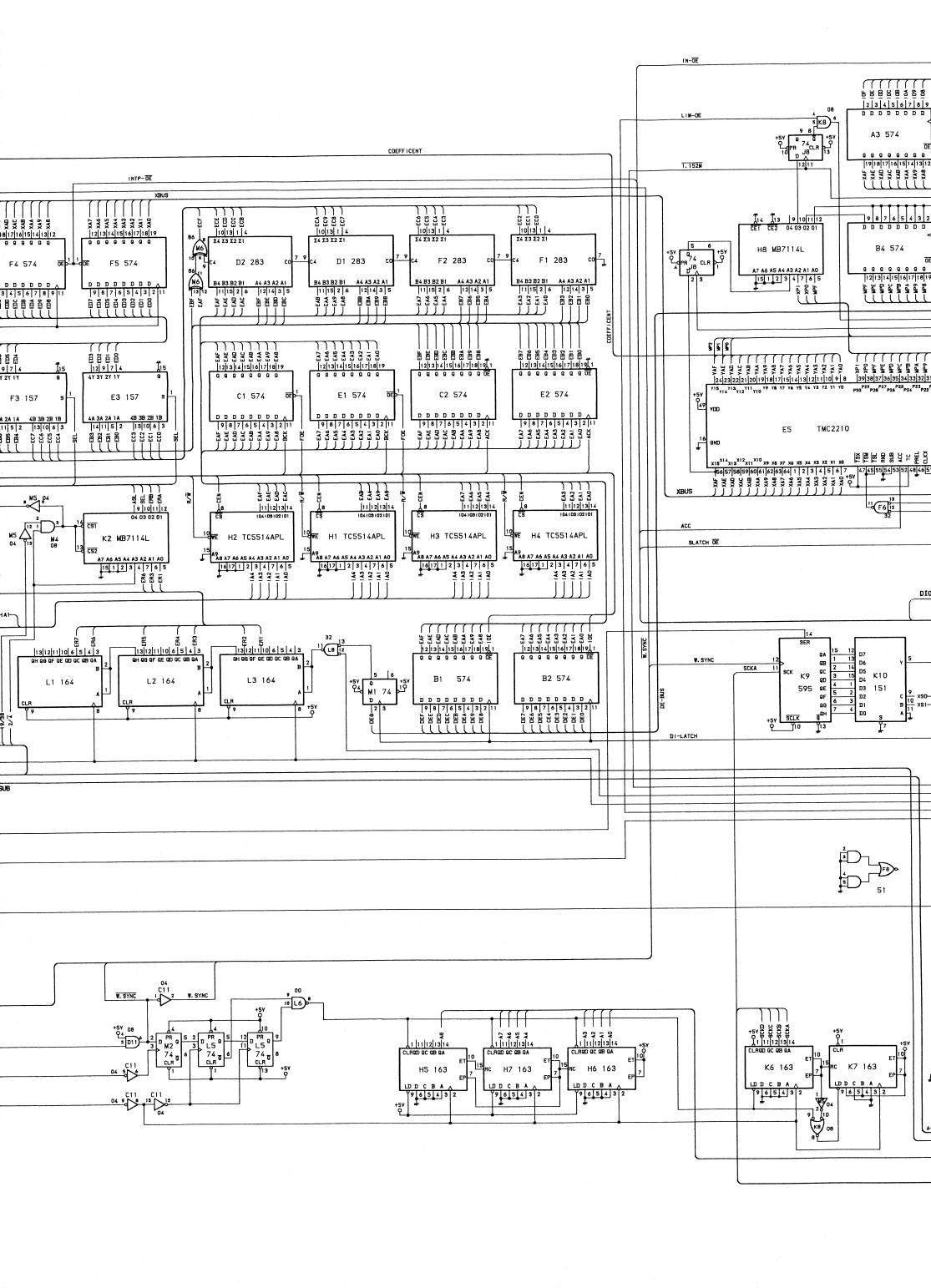


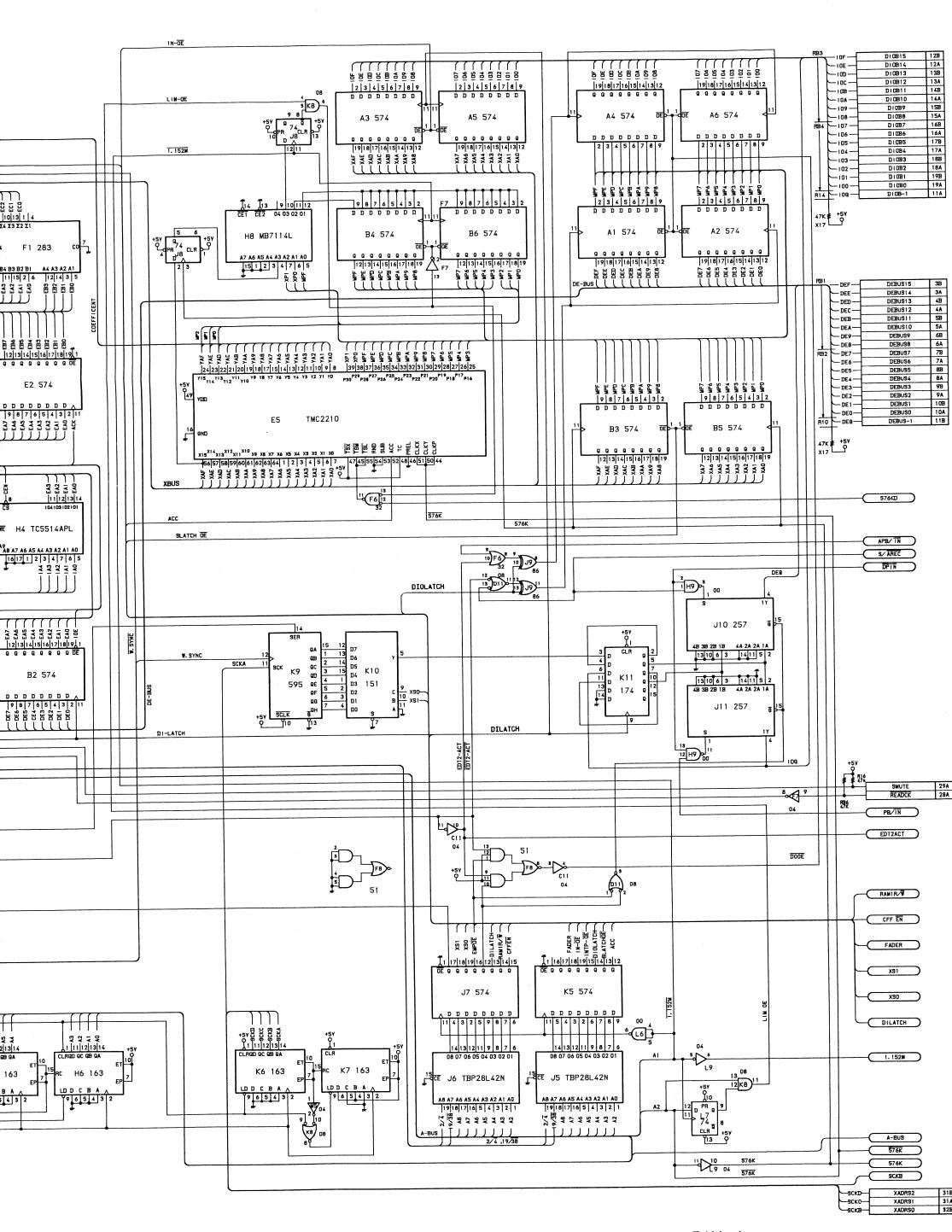


PCM-3402

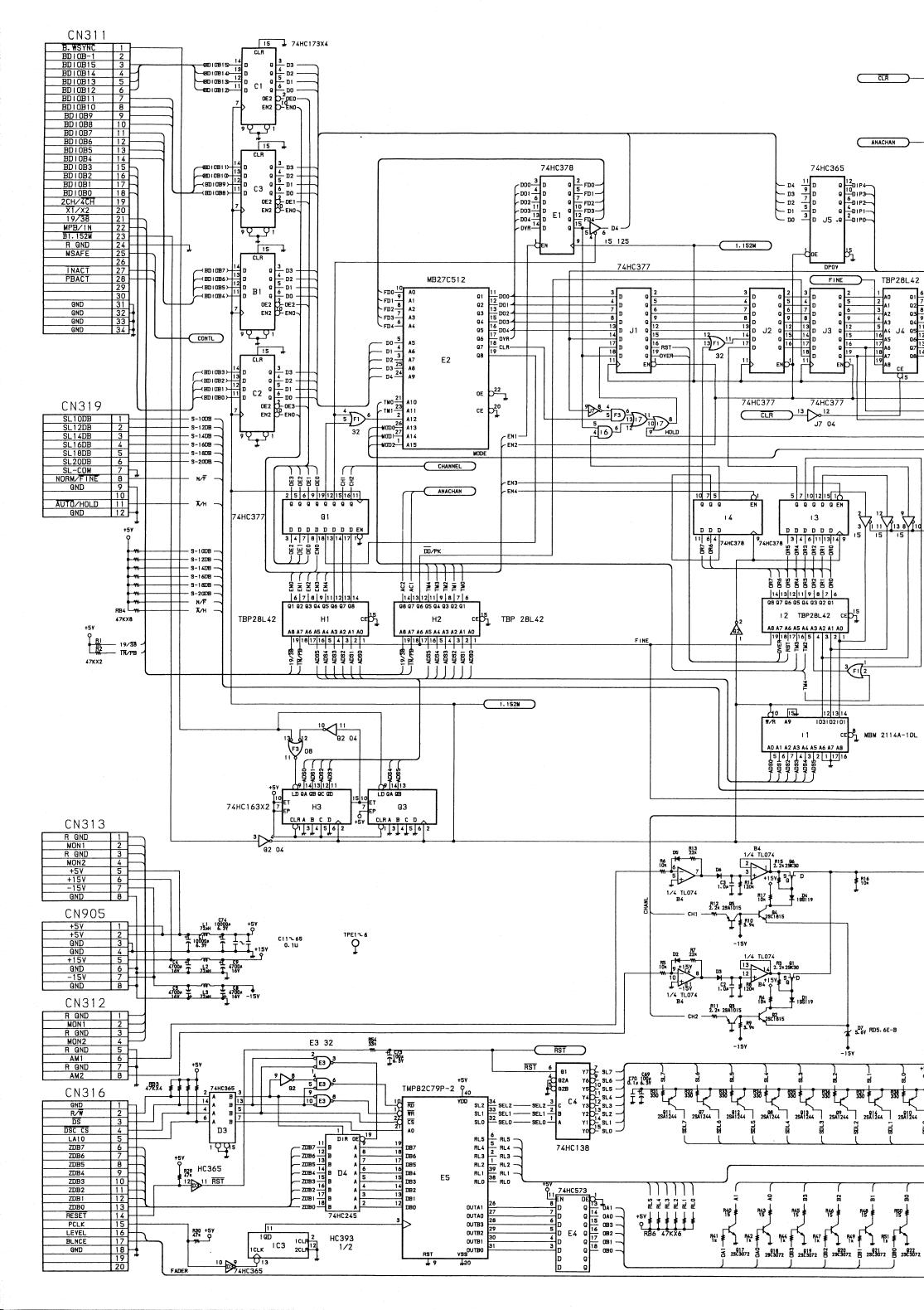
C-15

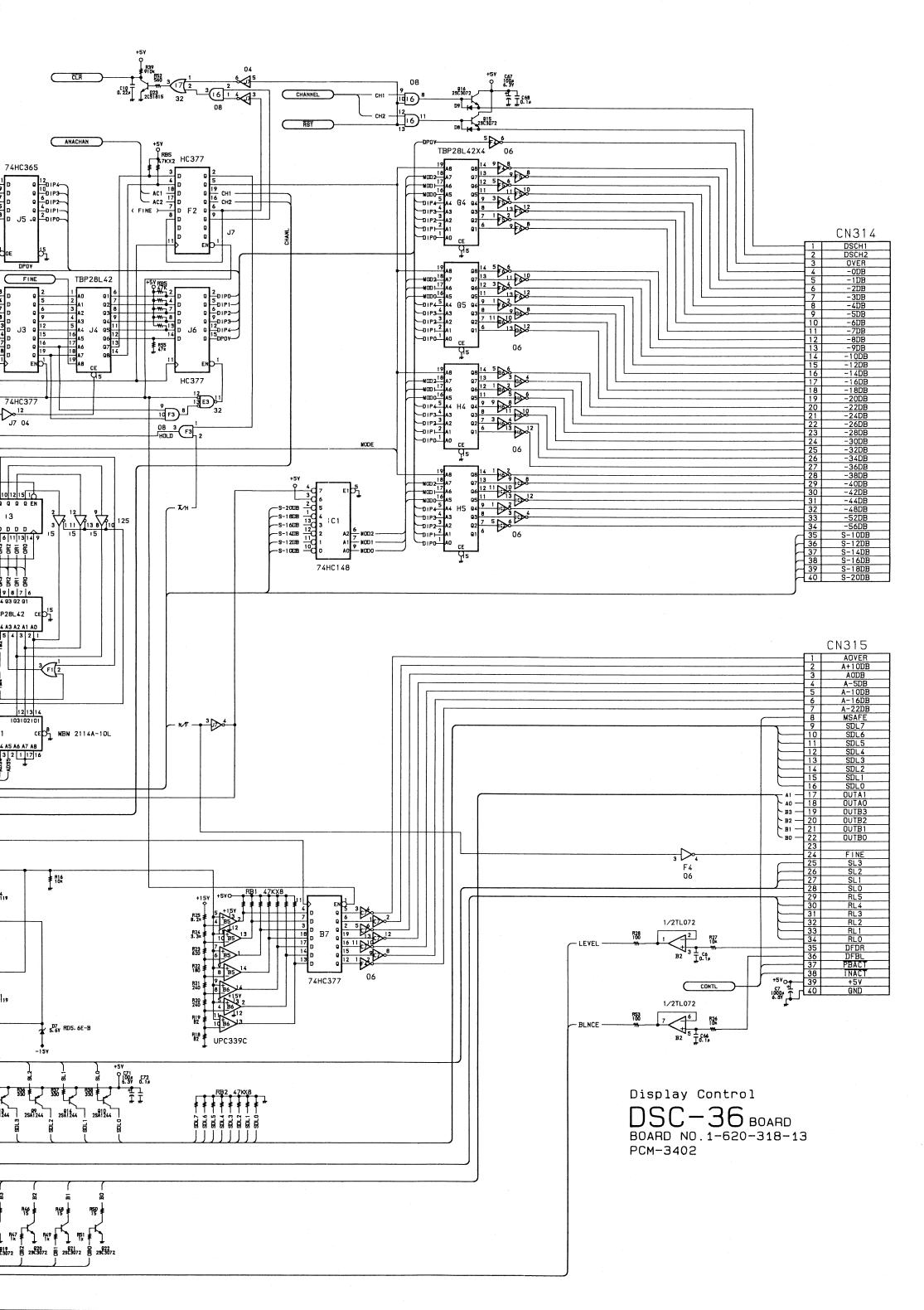


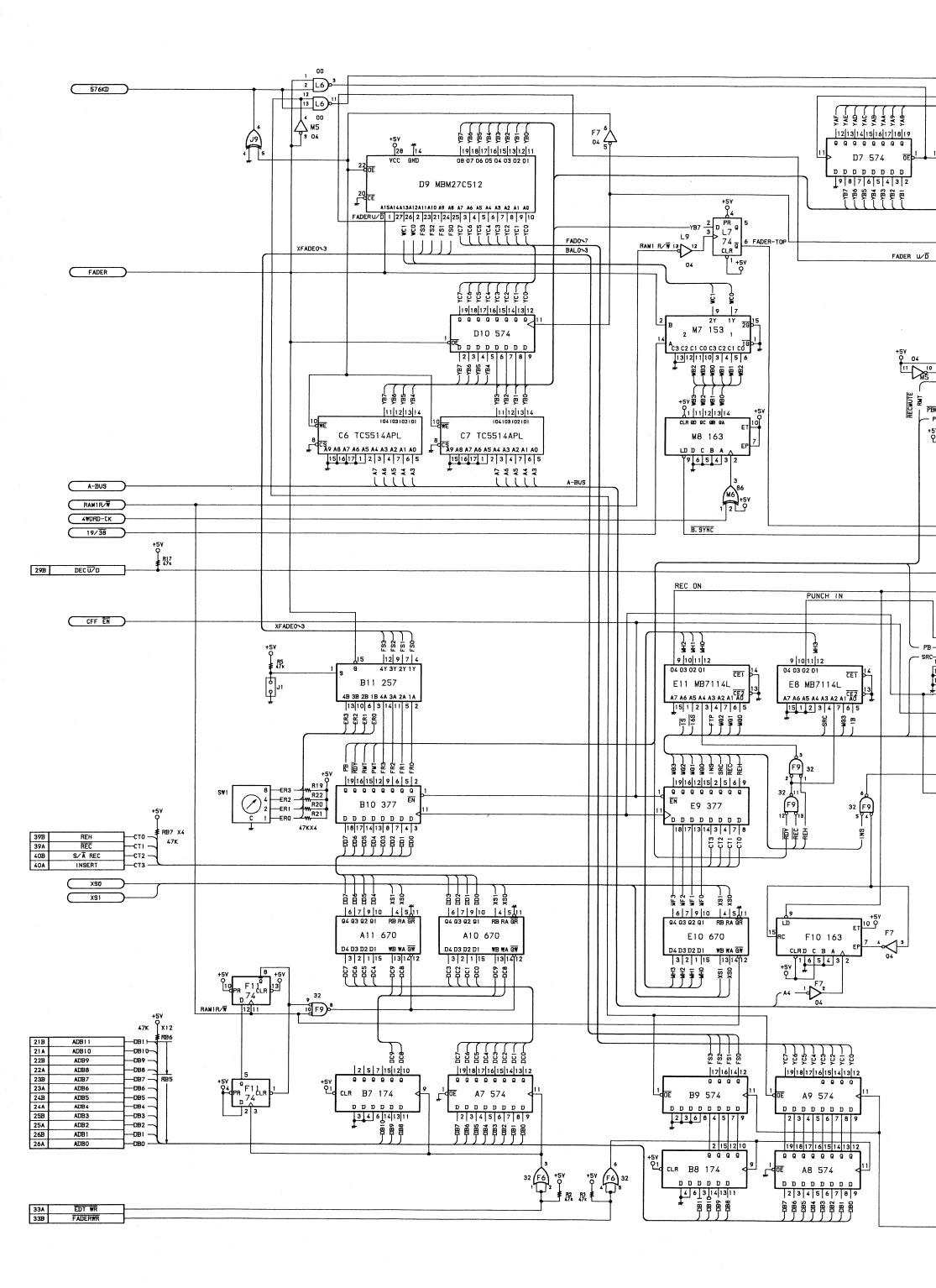


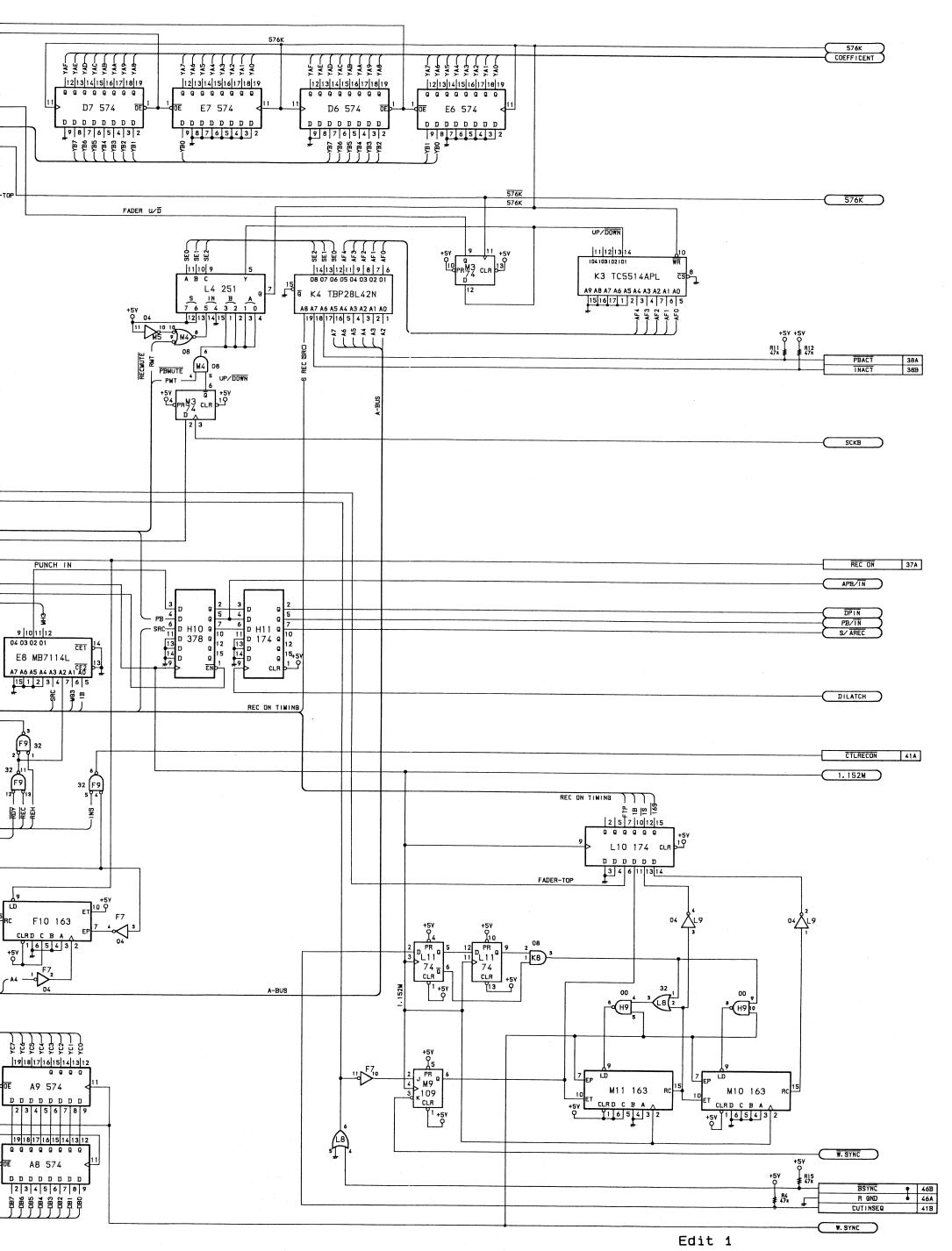


Edit 1 ED-16BOARD (1/2) BOARD NO.1-620-308-14 PCM-3402

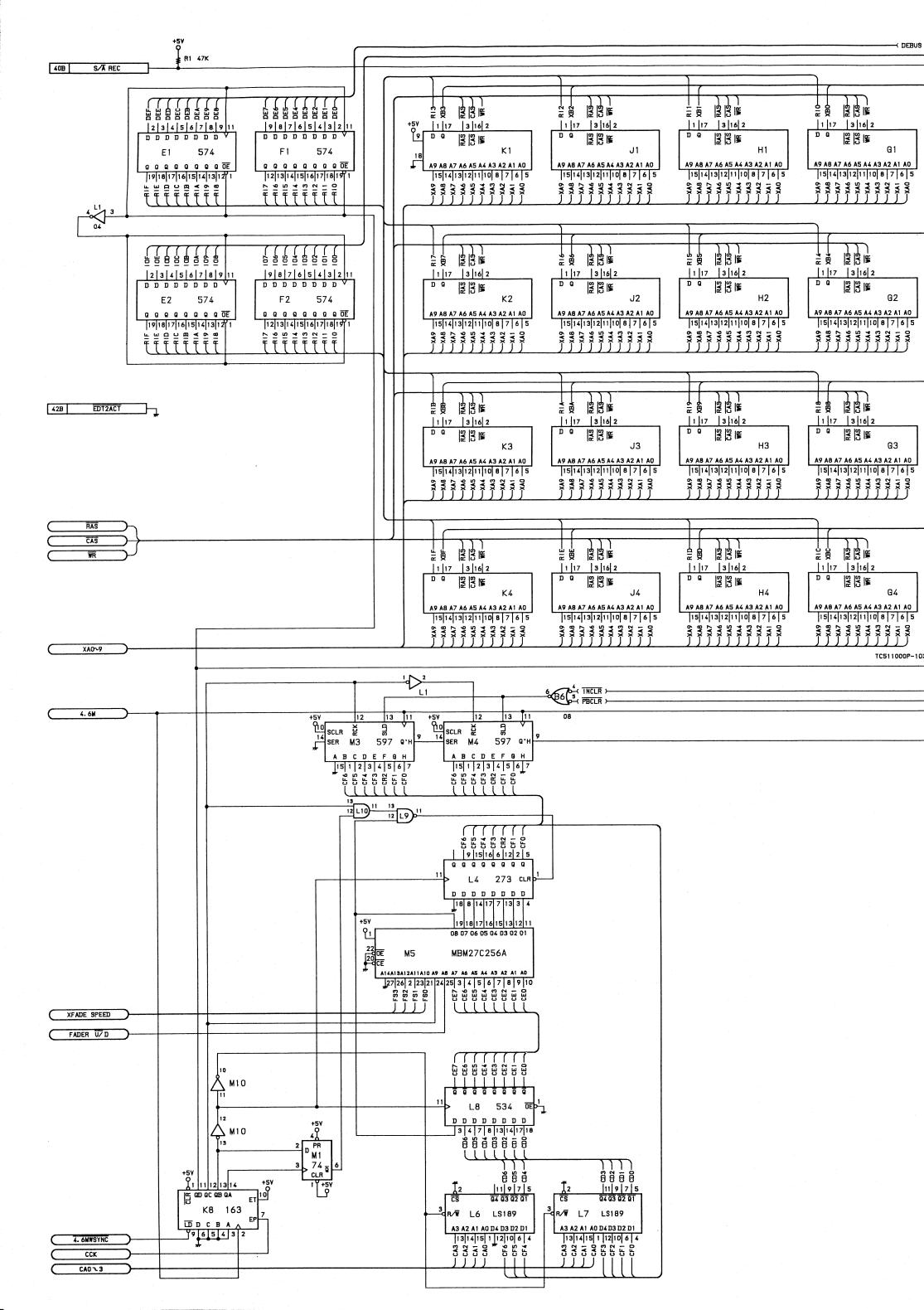


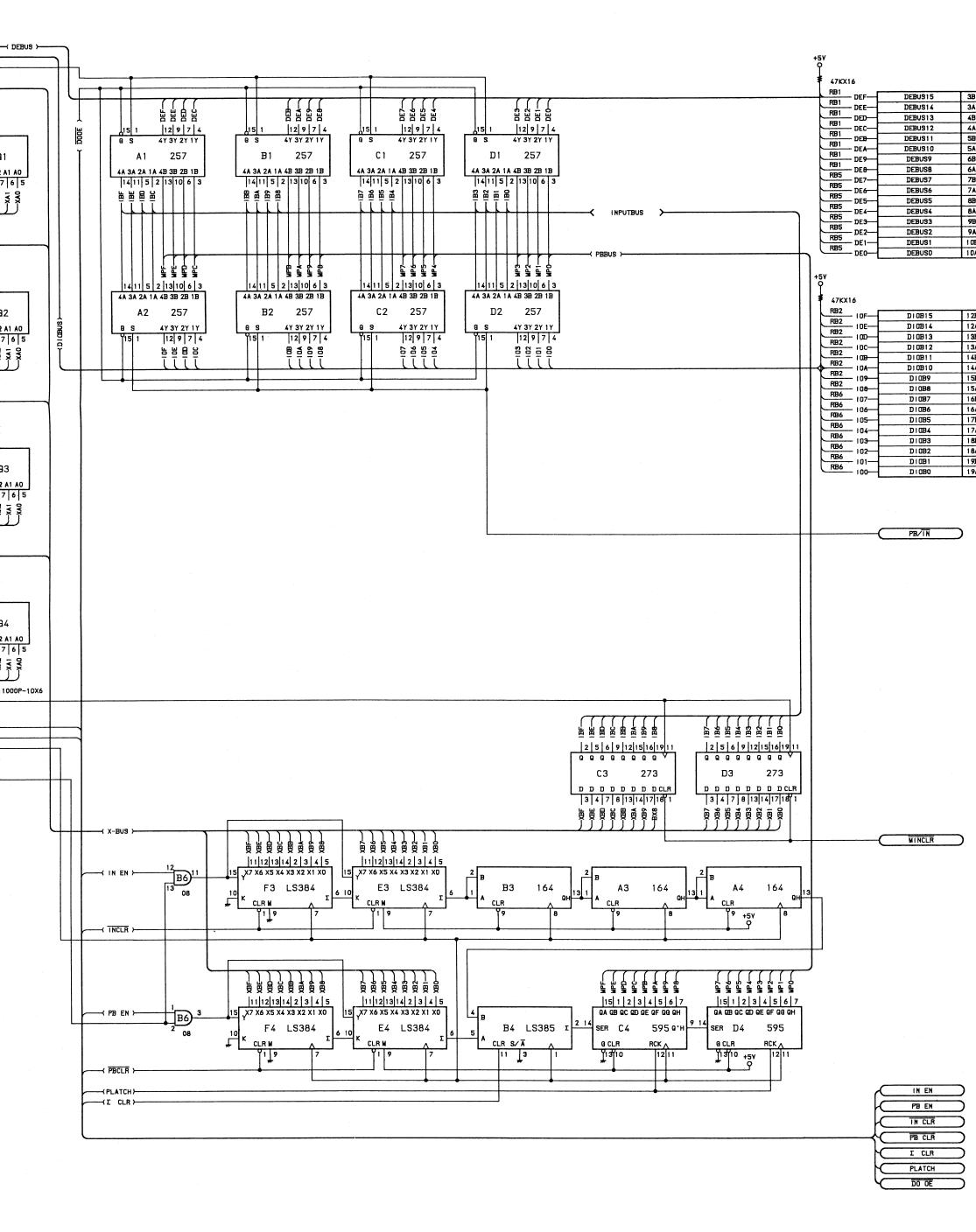




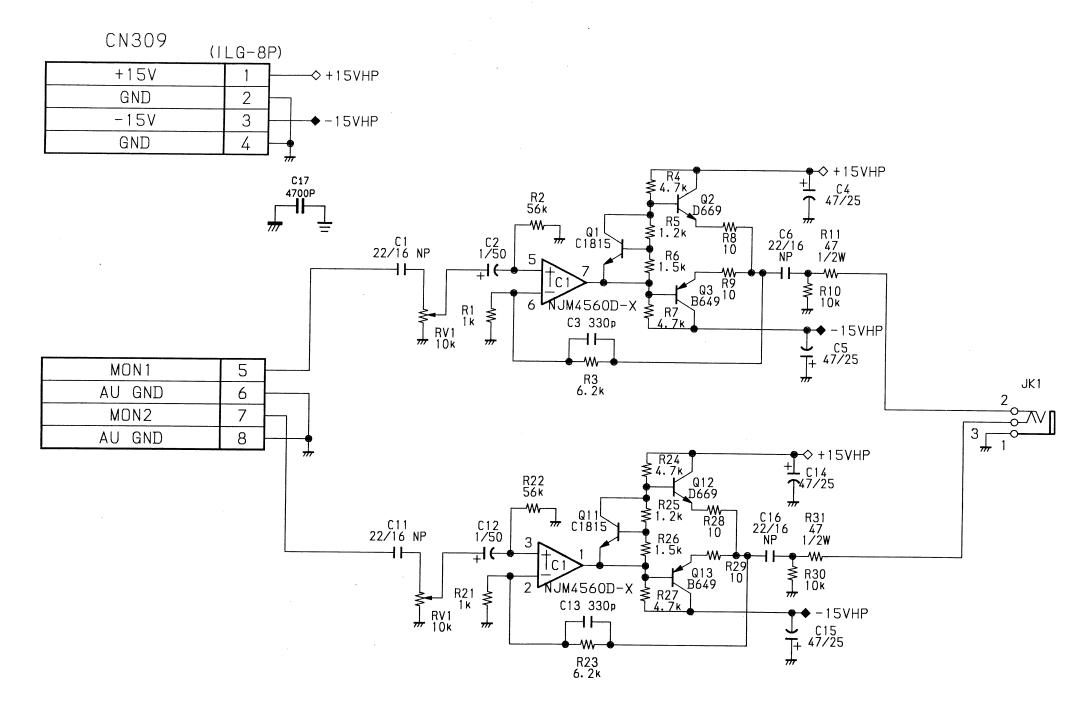


ED-16_{BOARD} (2/2)
BOARD NO.1-620-308-14



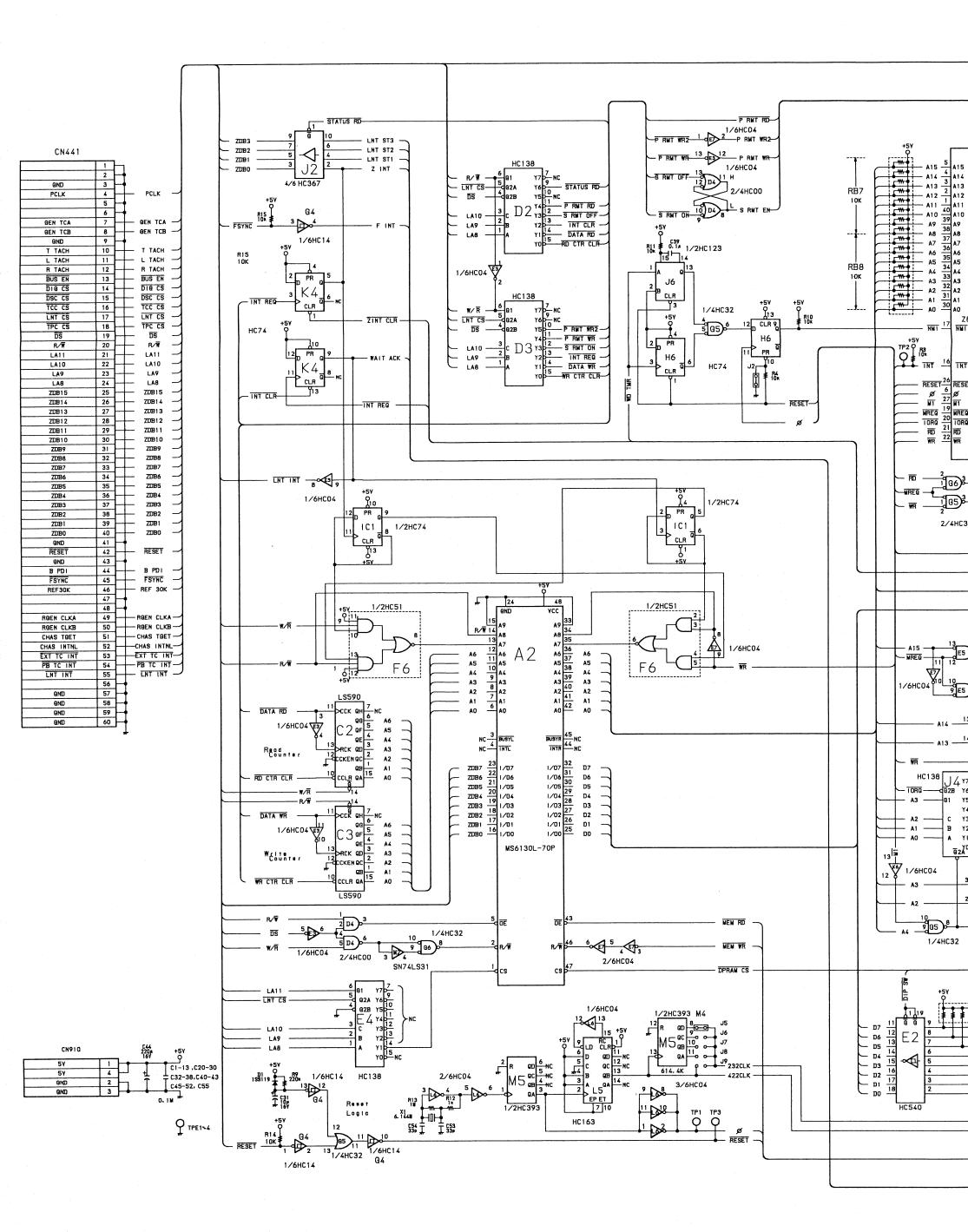


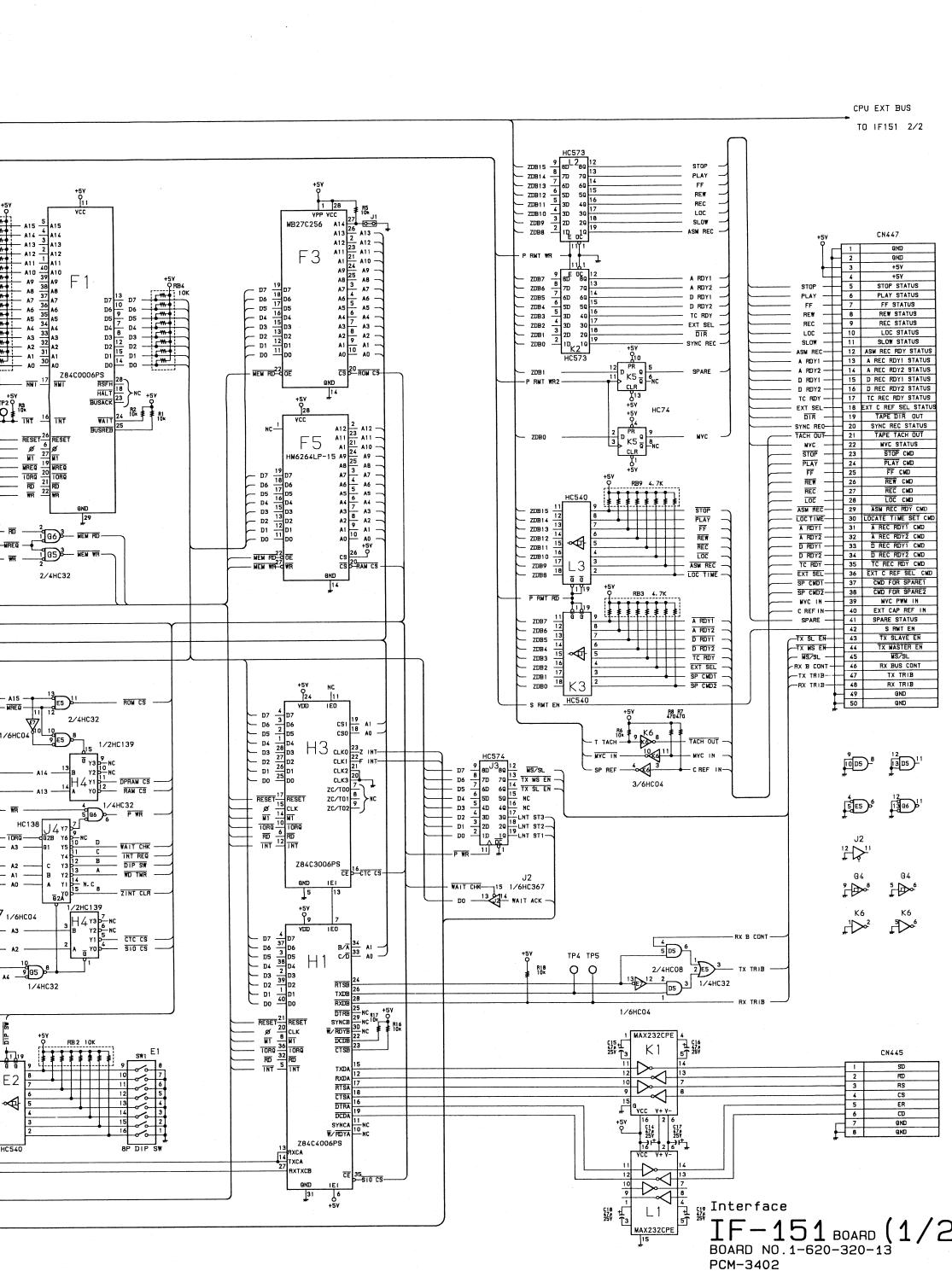
Edit 2 ED-17_{BOARD} (1/2) BOARD NO.1-620-309-13 PCM-3402

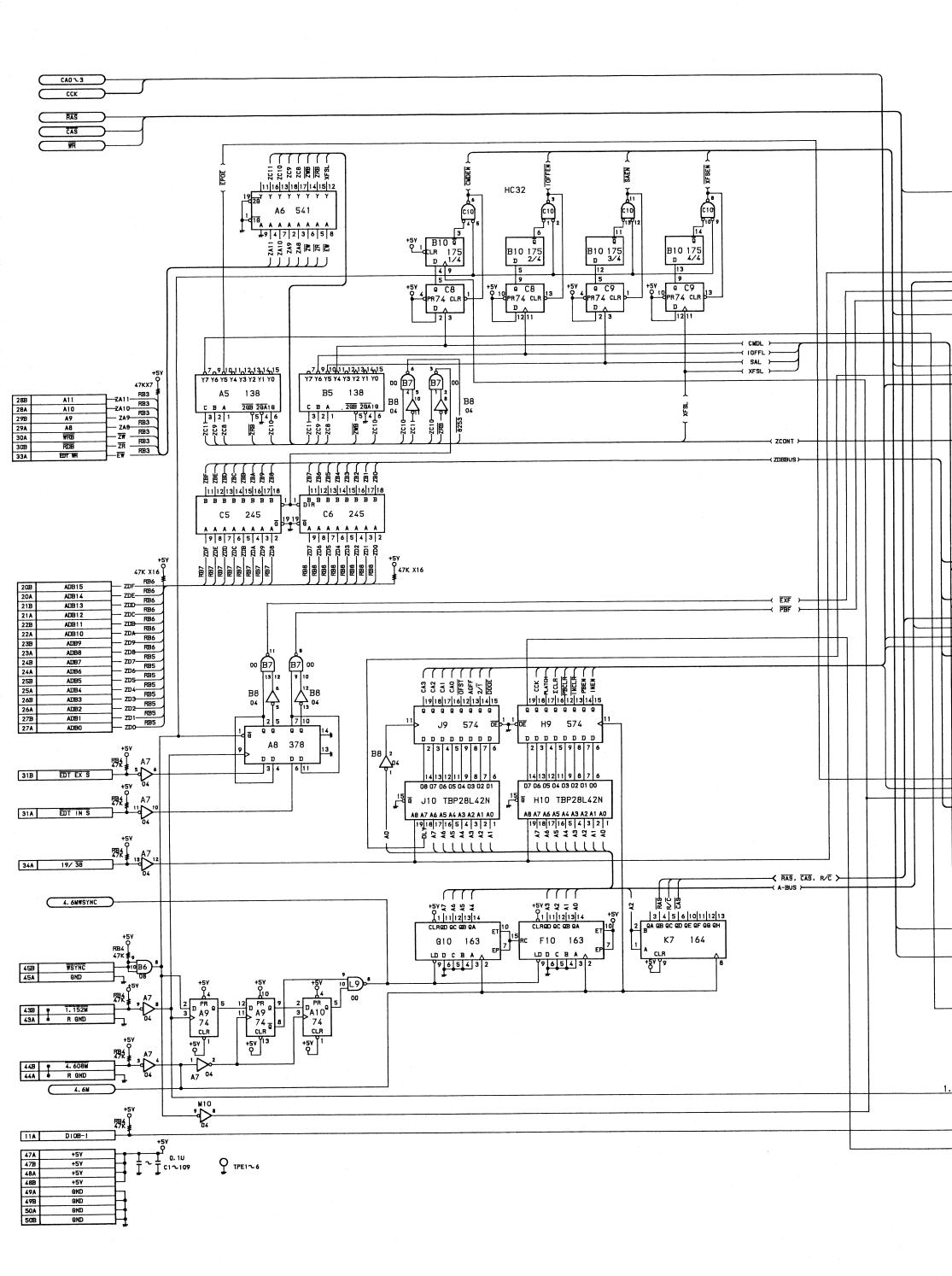


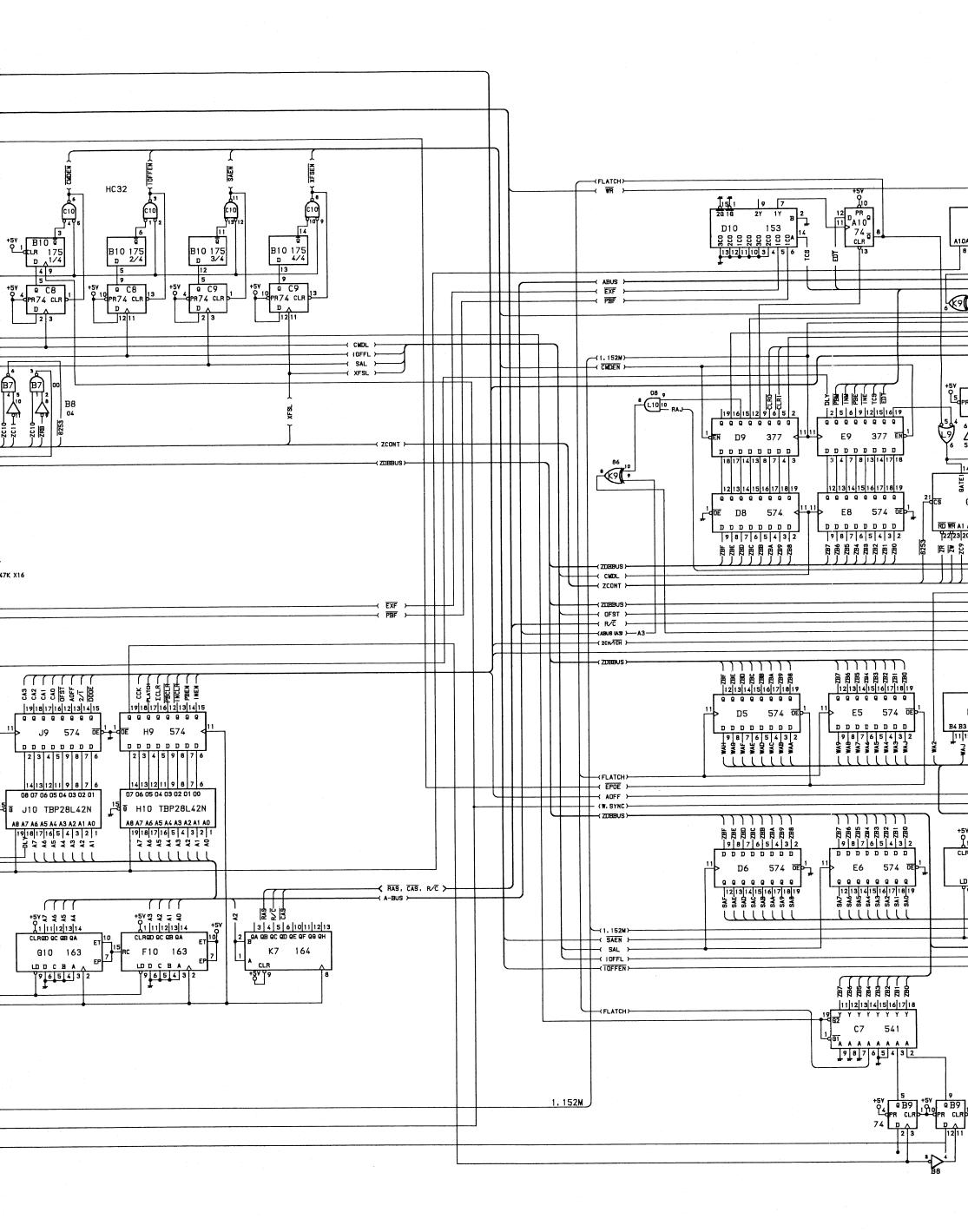
POWER SUPPLY DECOUPLING

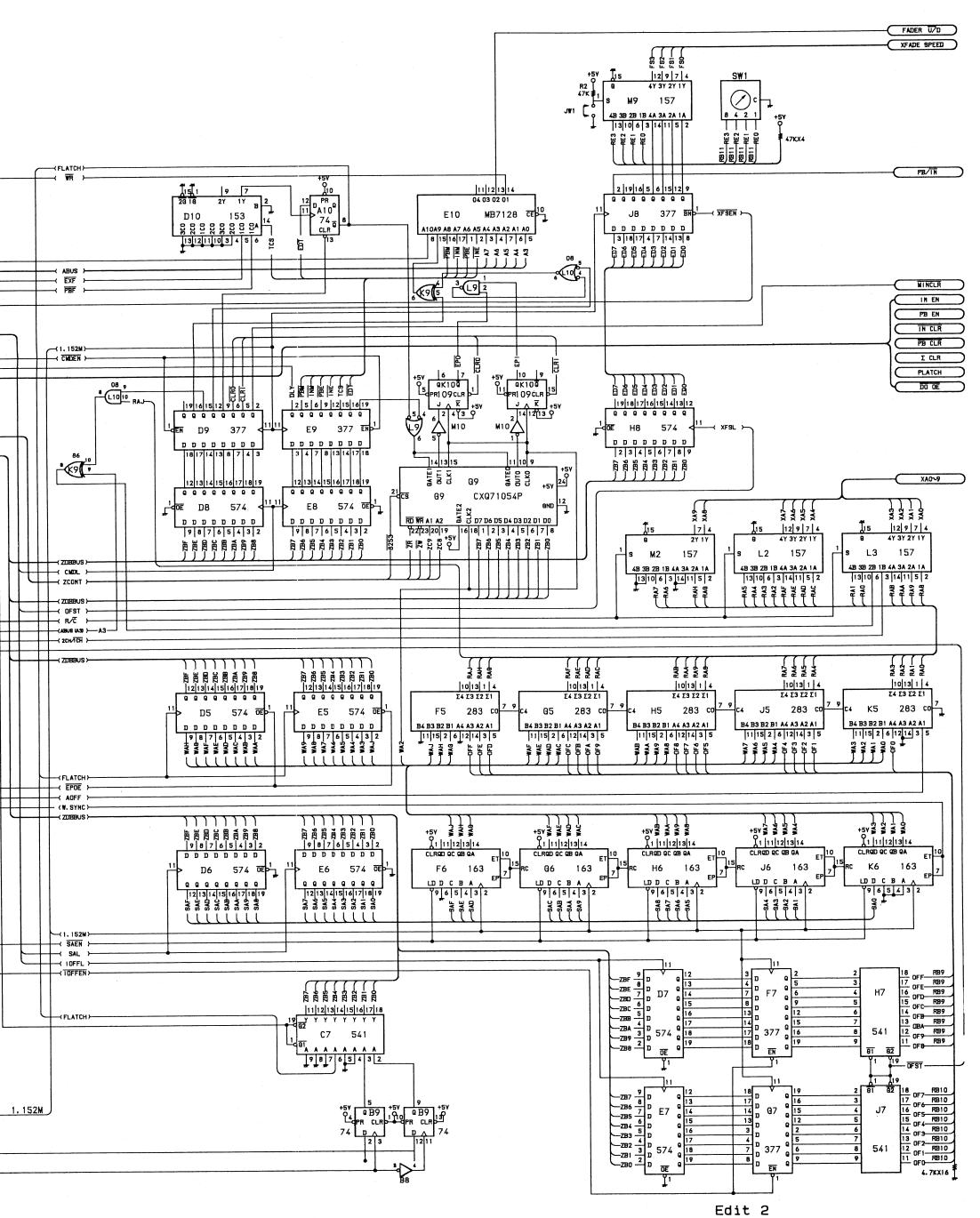




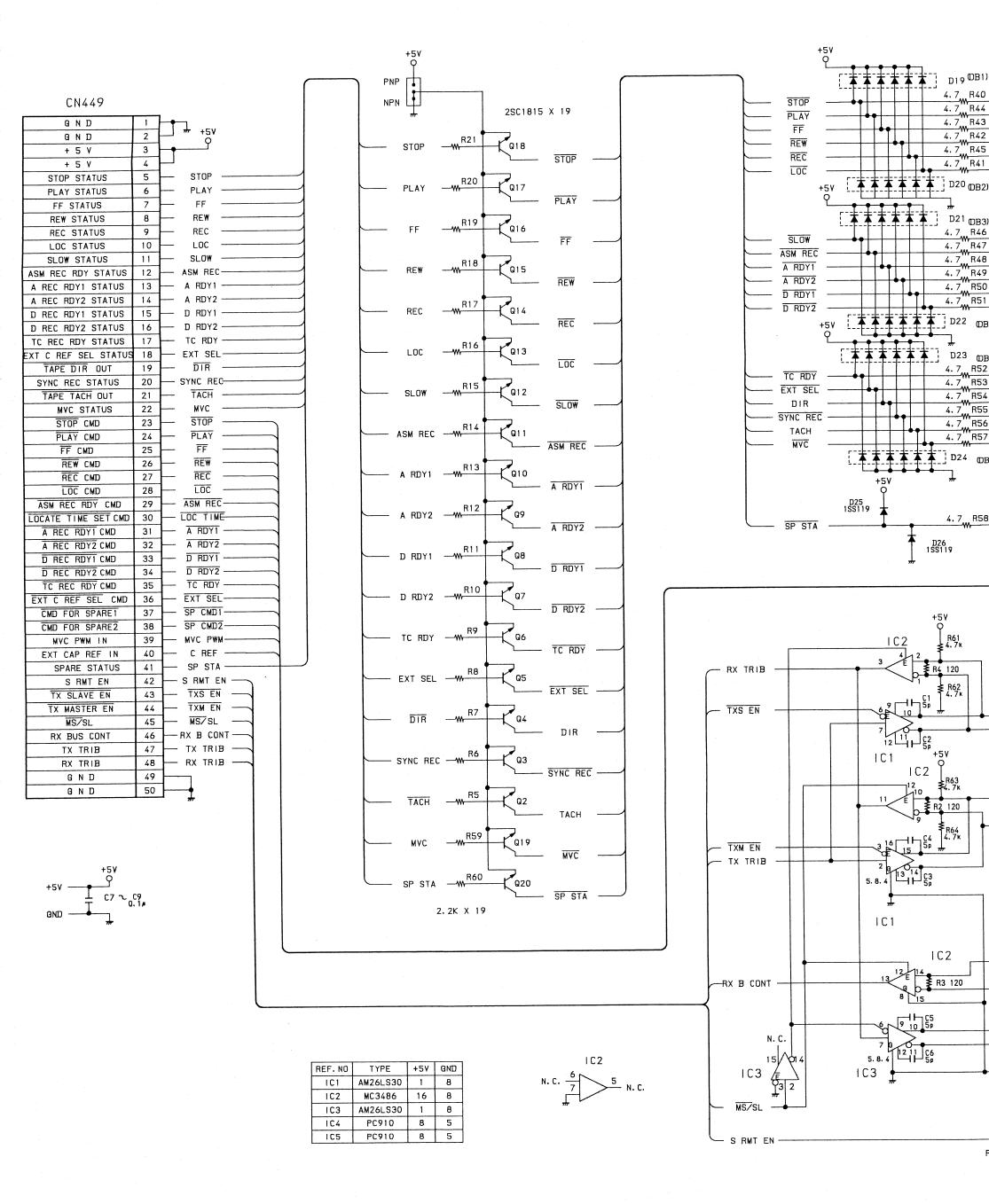


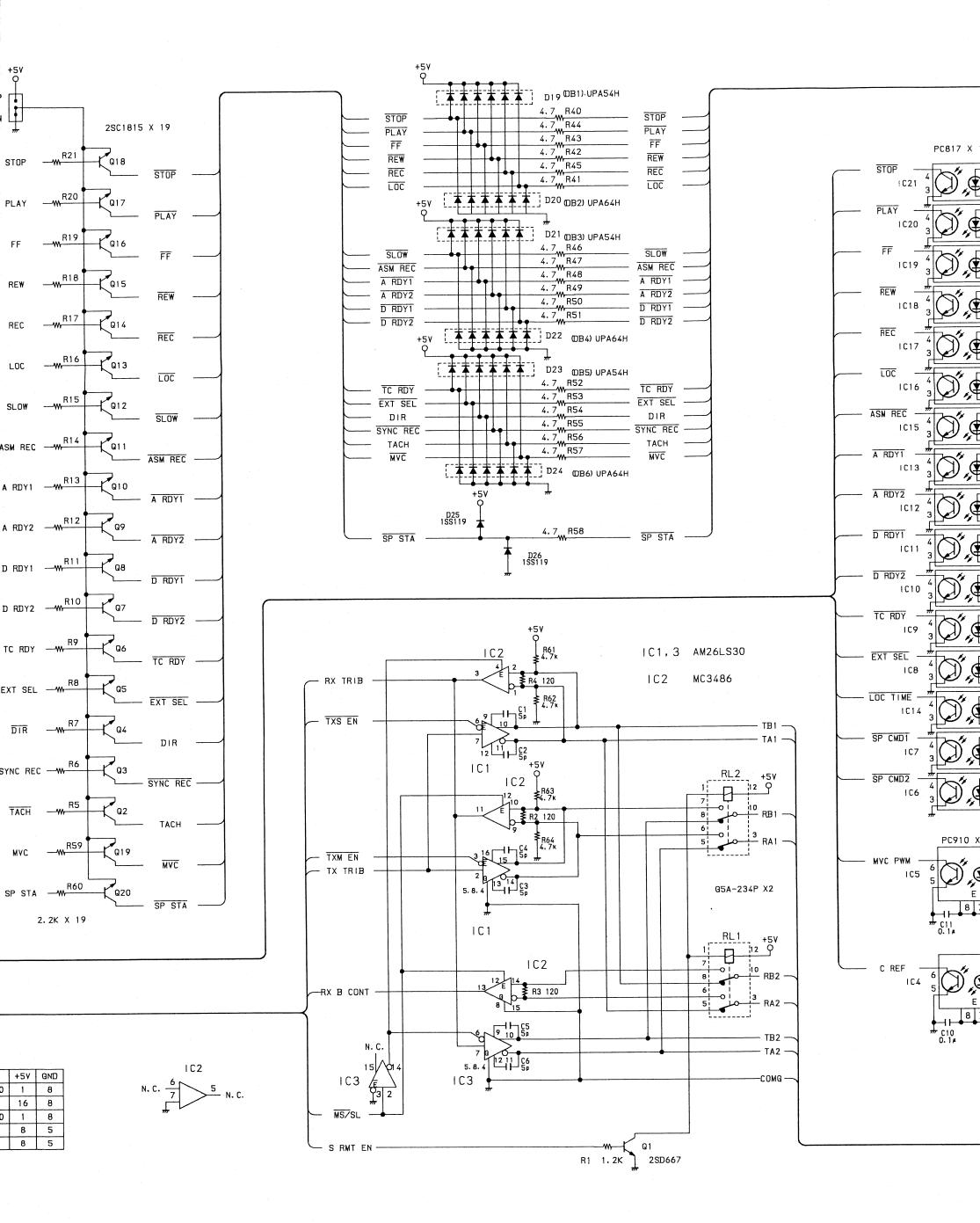


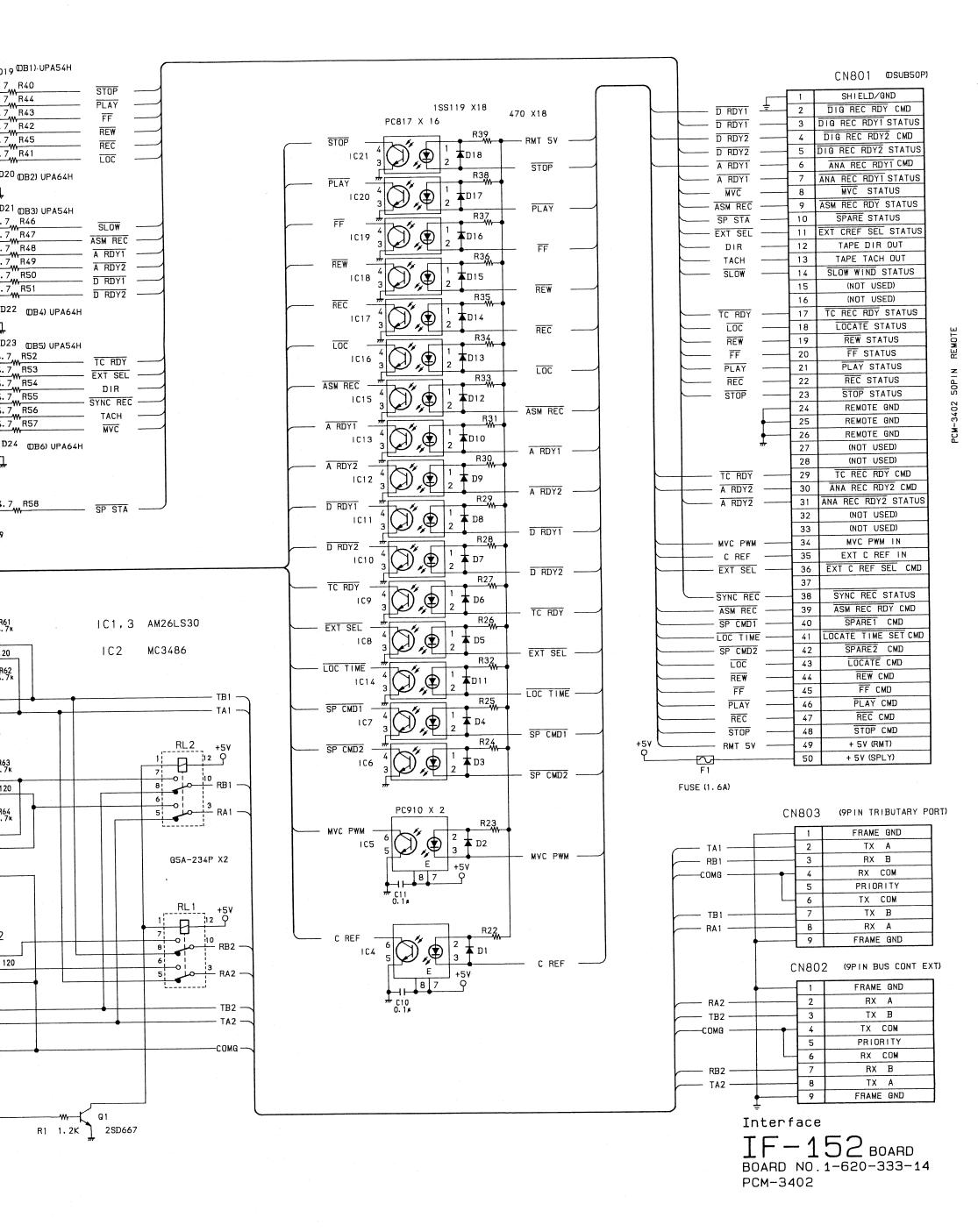


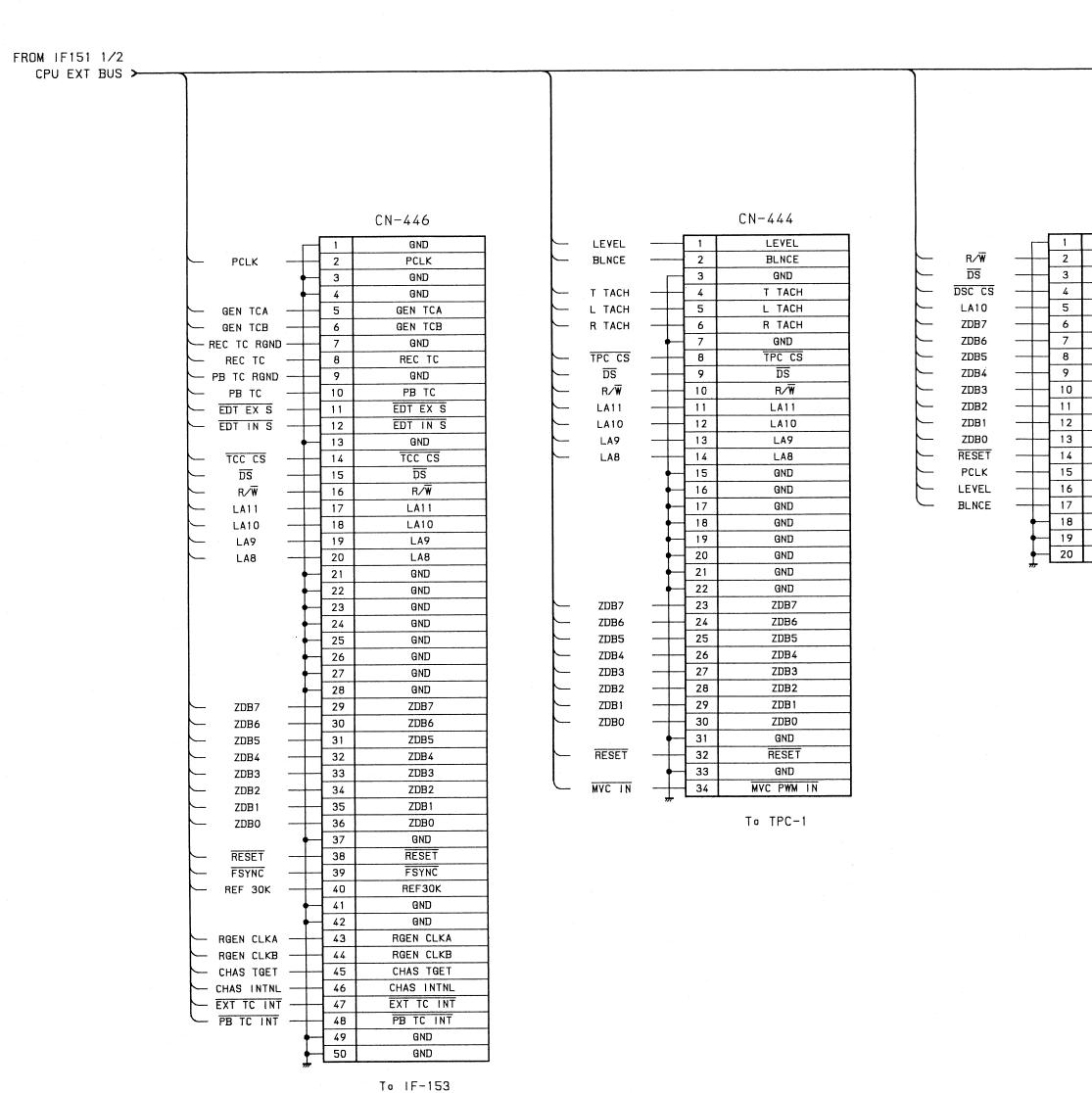


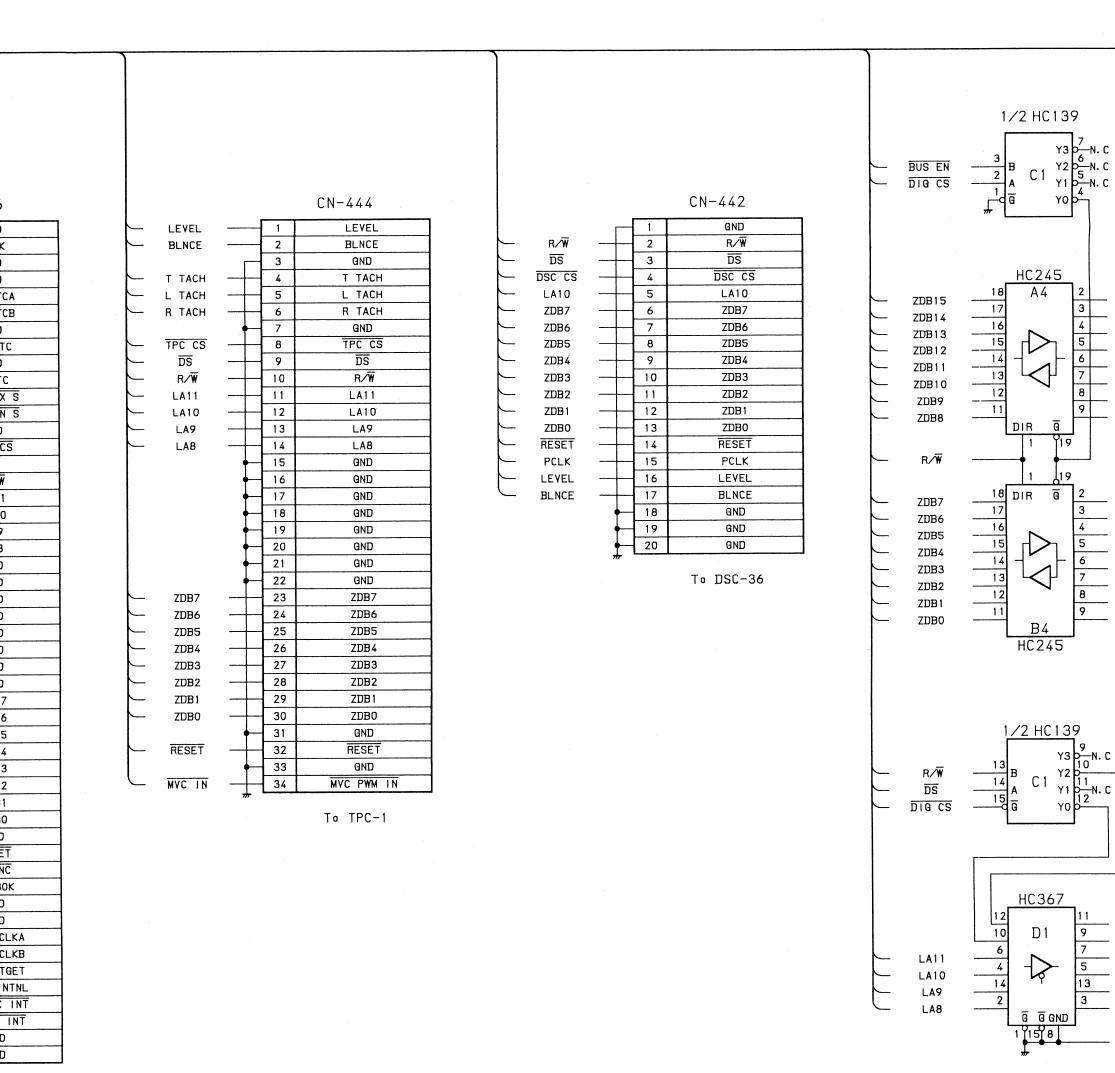
ED-17_{BOARD} (2/2) BOARD NO.1-620-309-13 PCM-3402

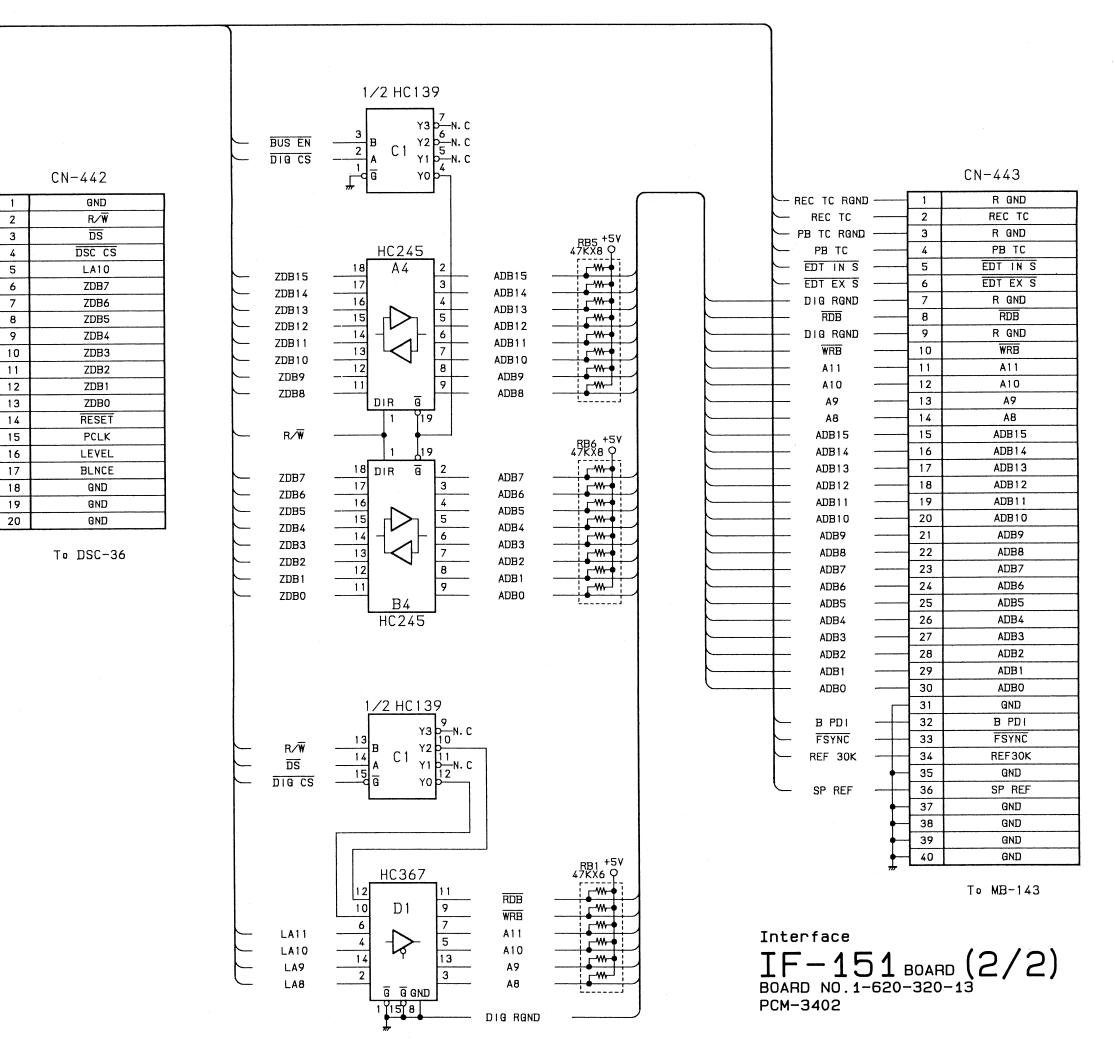


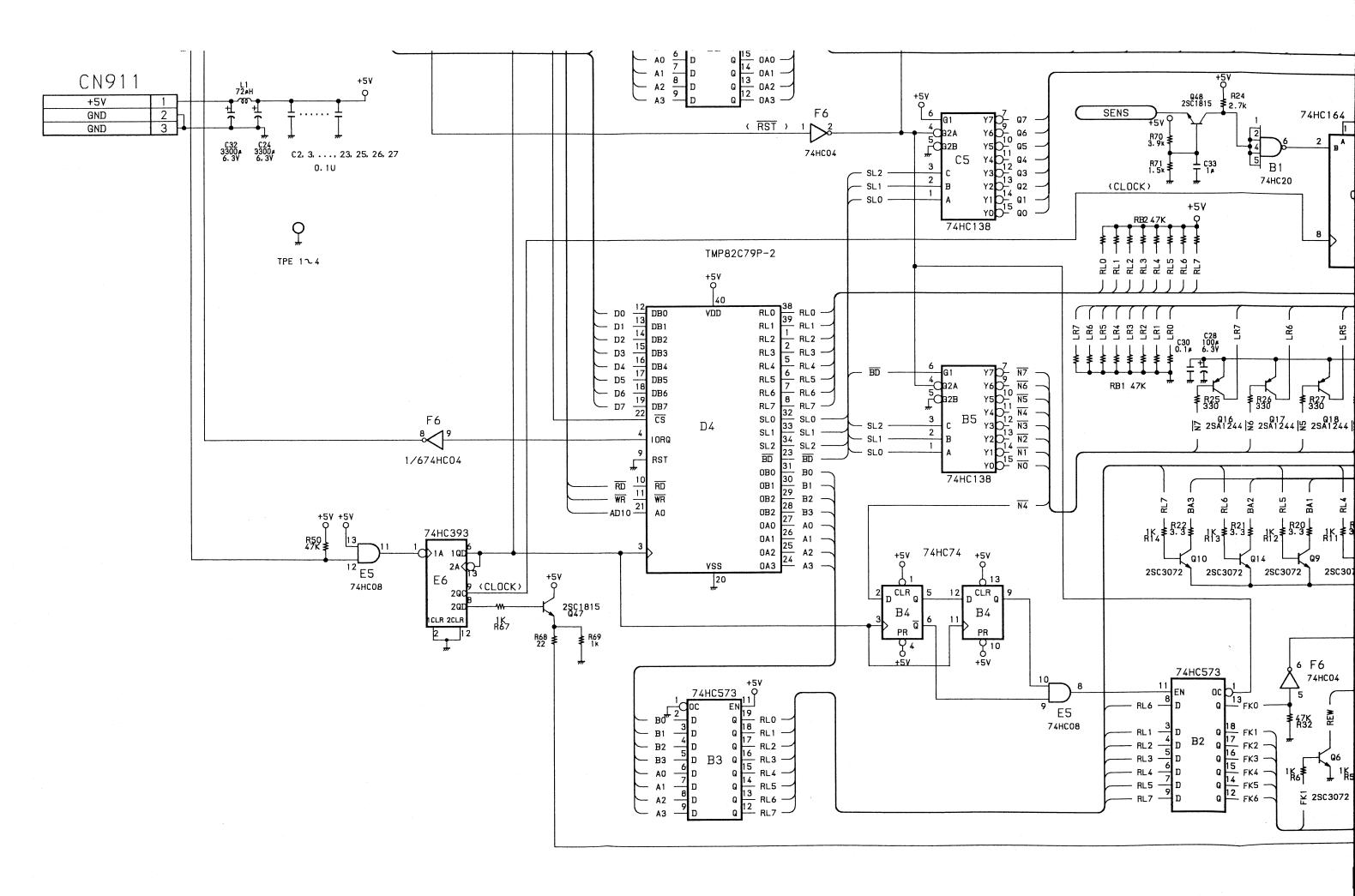


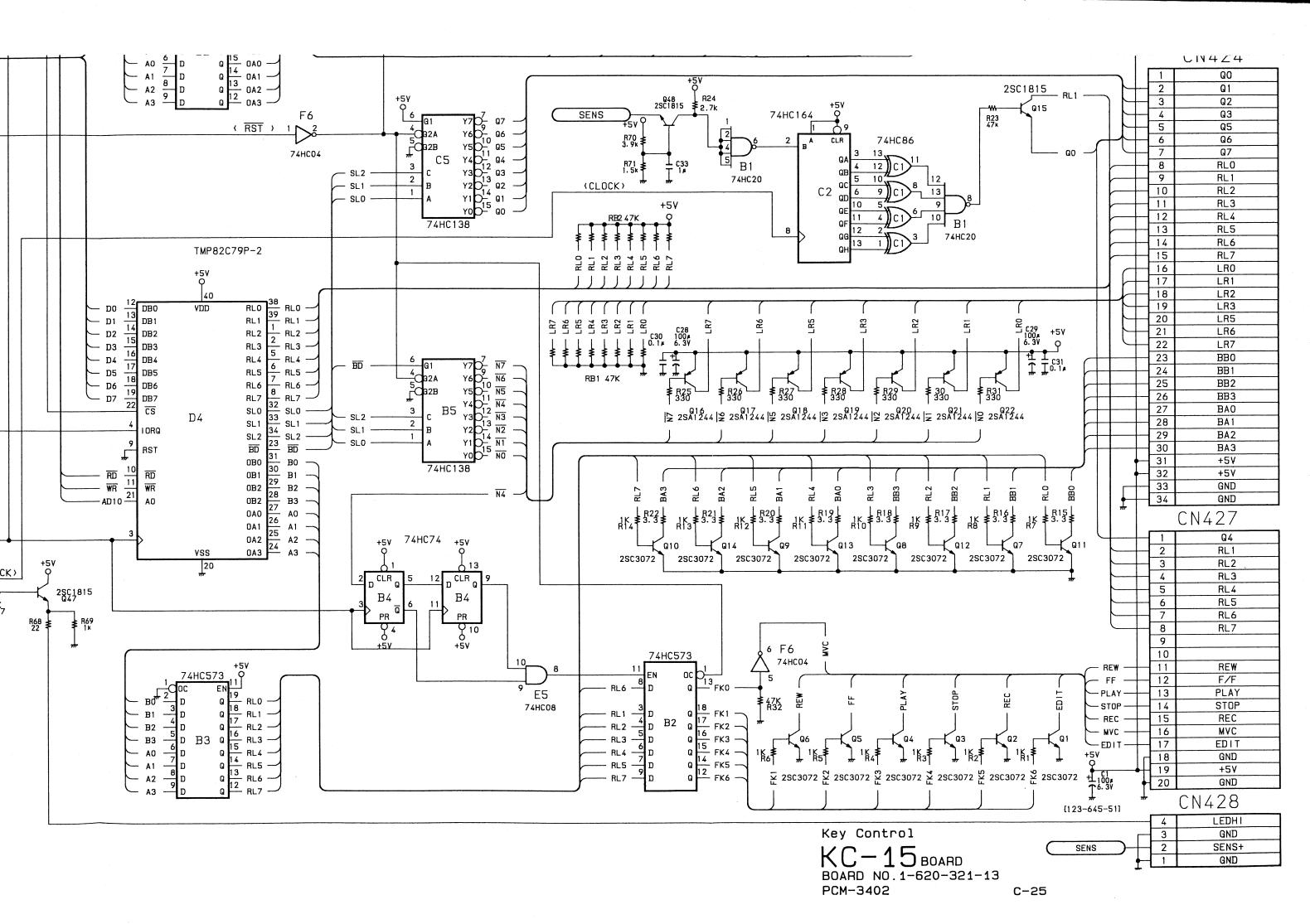


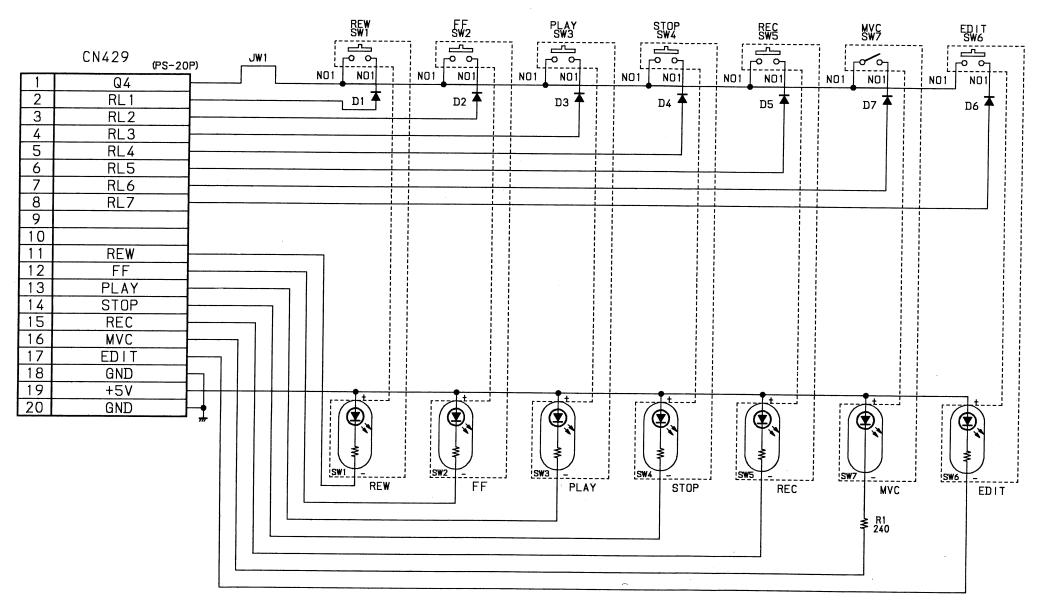




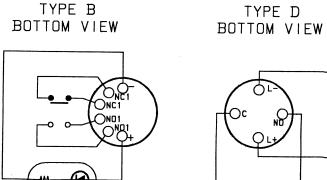




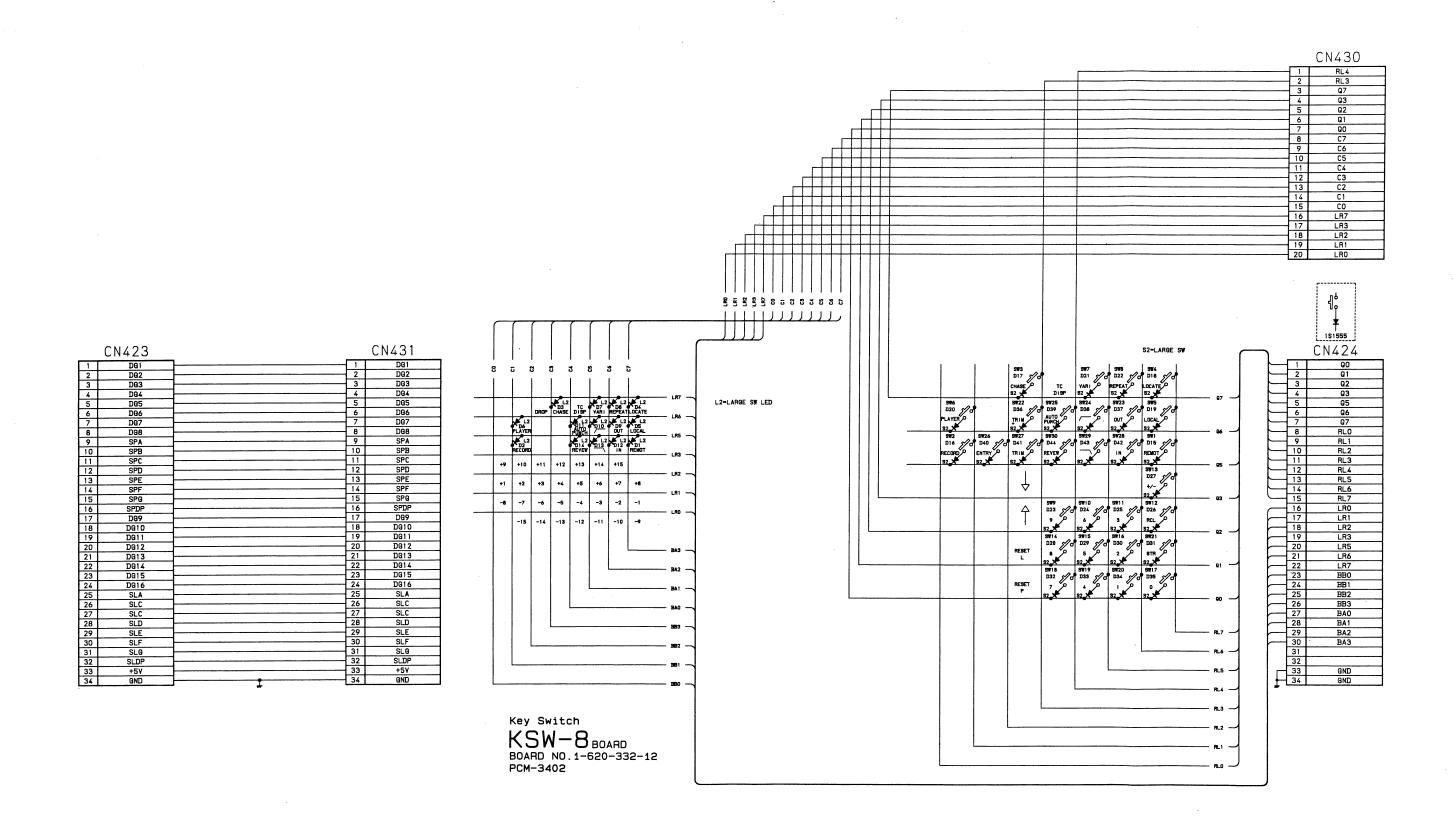


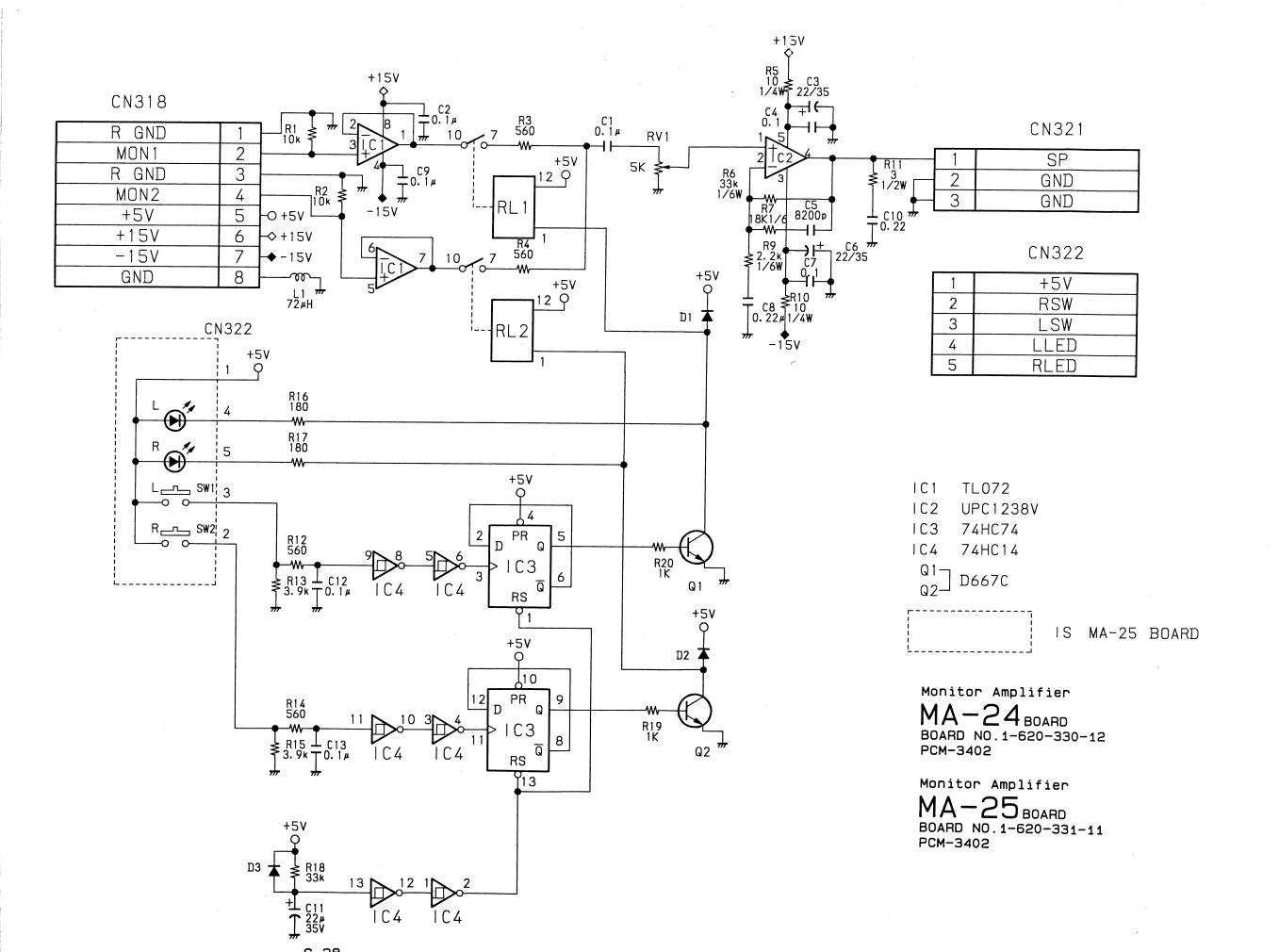


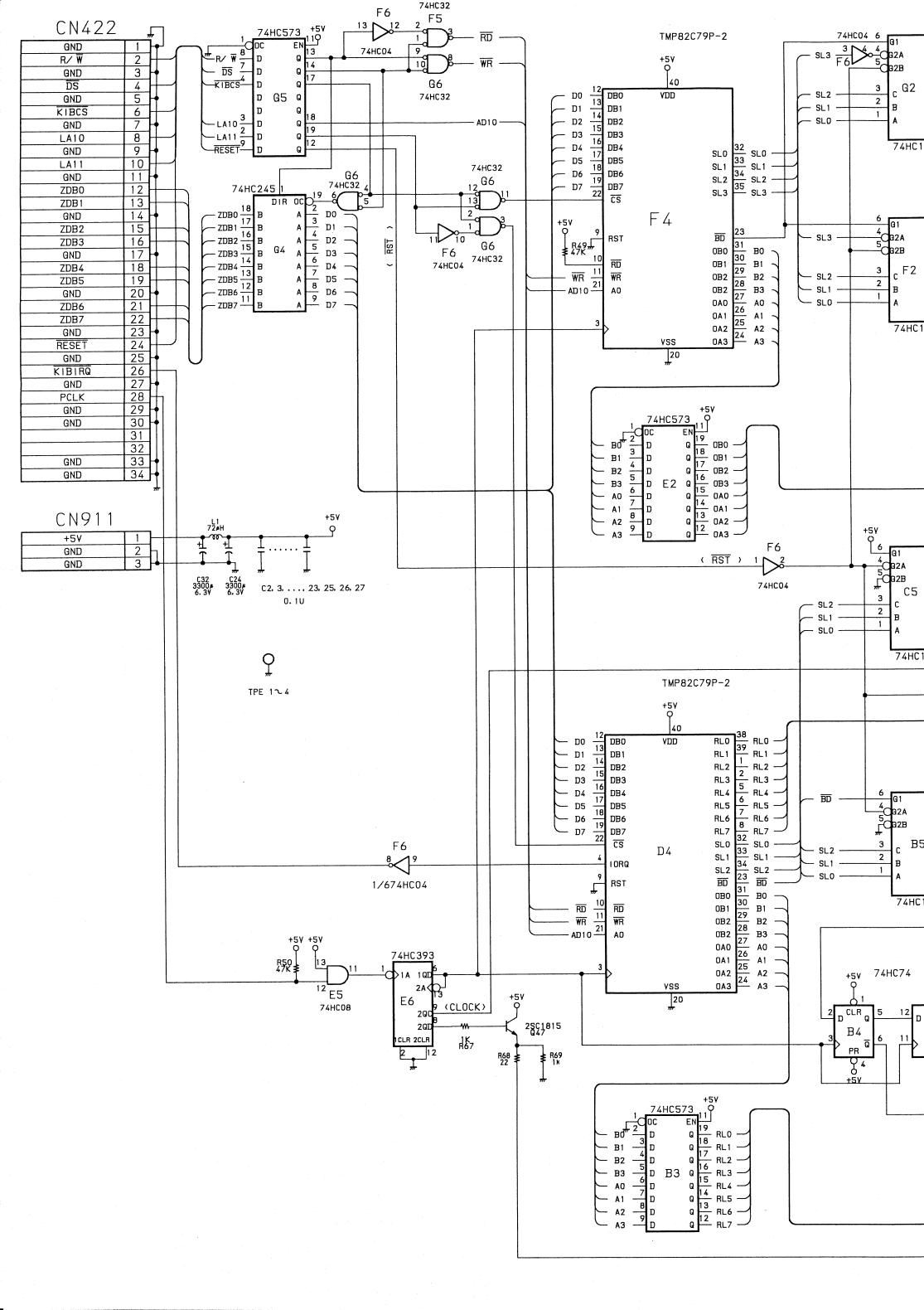
D1. D2. D3. D4. D5. D6. D7------ 1SS119 SW1. SW2. SW3. SW4. SW5. SW6----- TYPE B SW7-----TYPE D

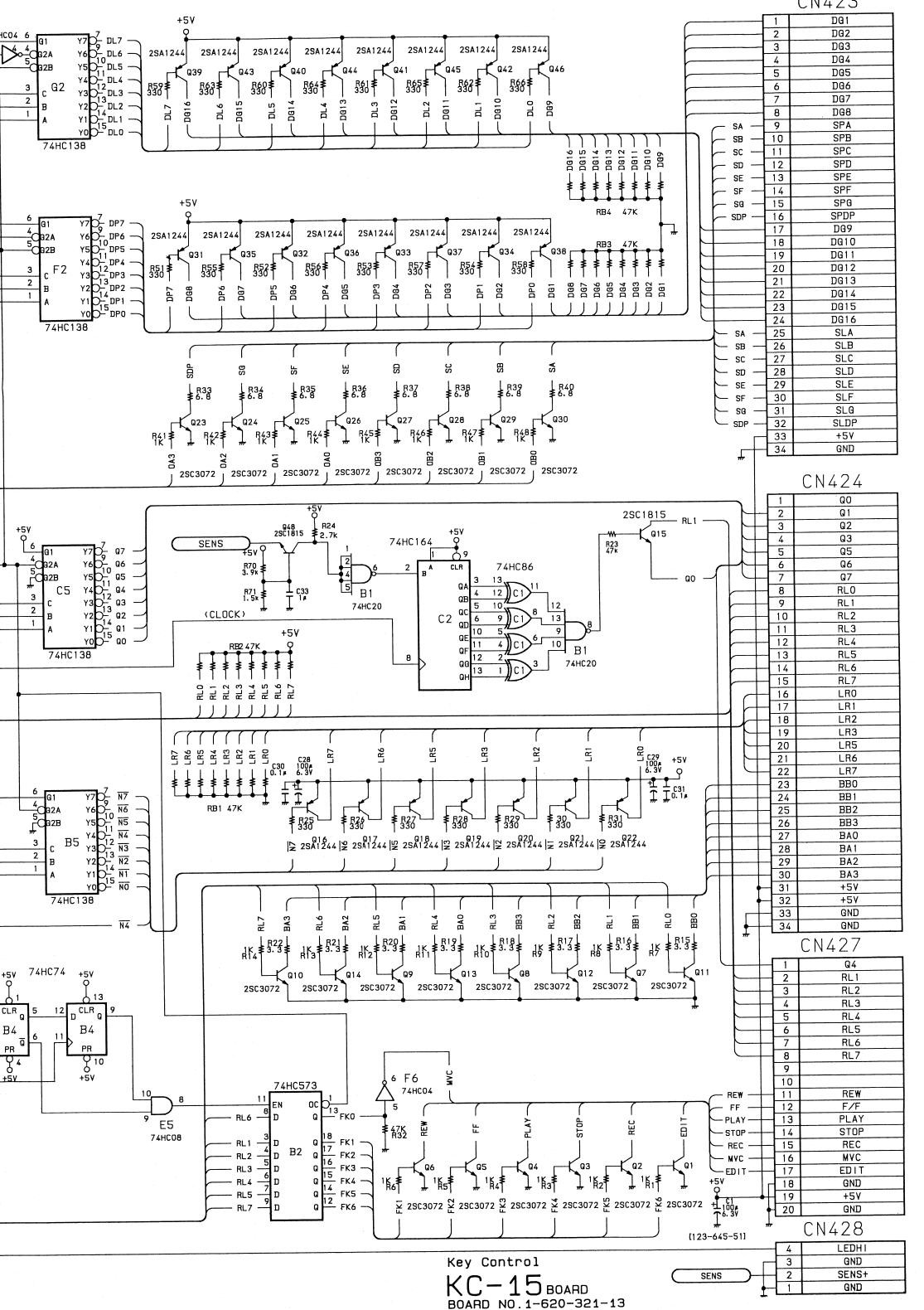


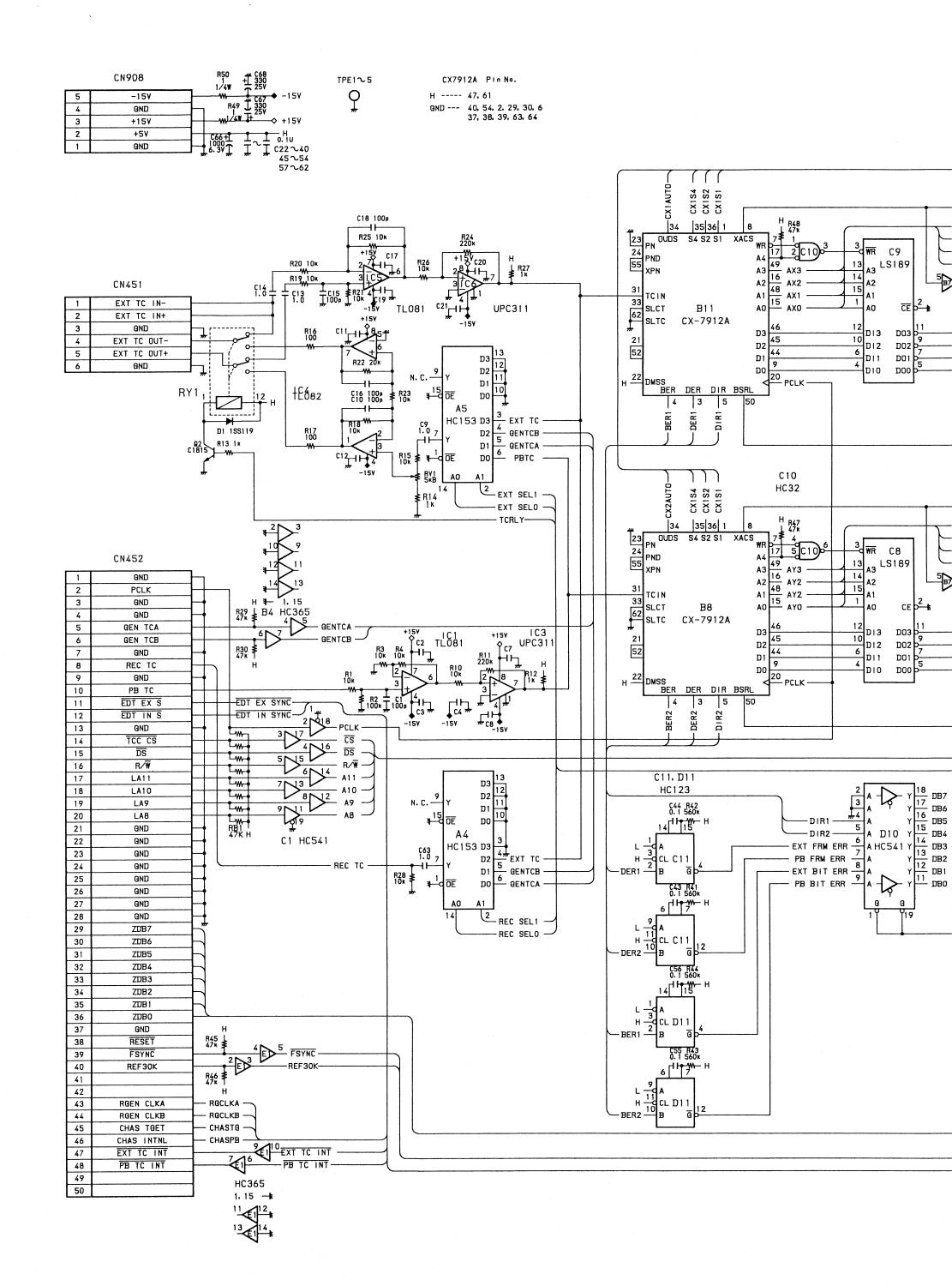
Key Switch
KEY-7
BOARD NO.1-620-327-12
PCM-3402

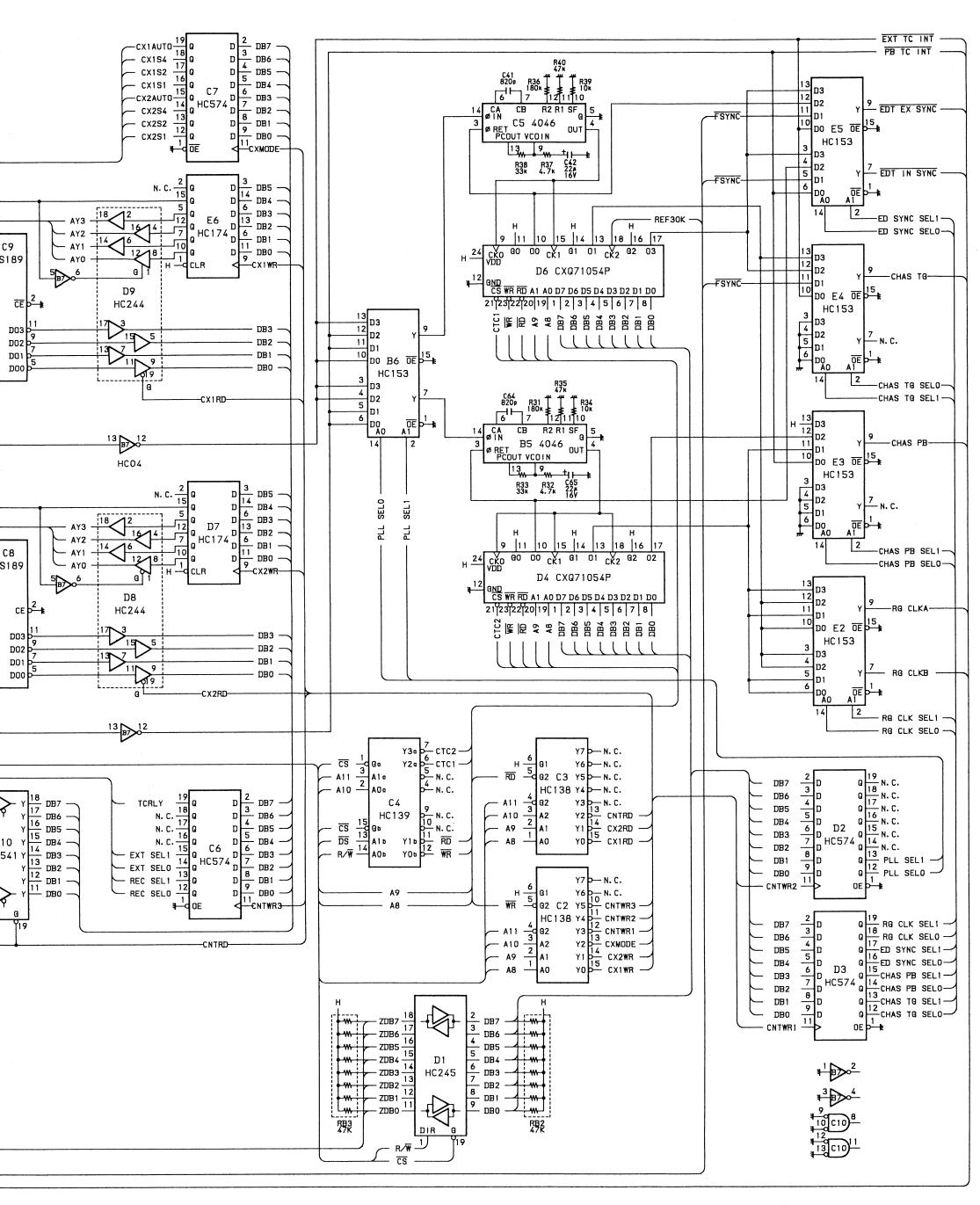




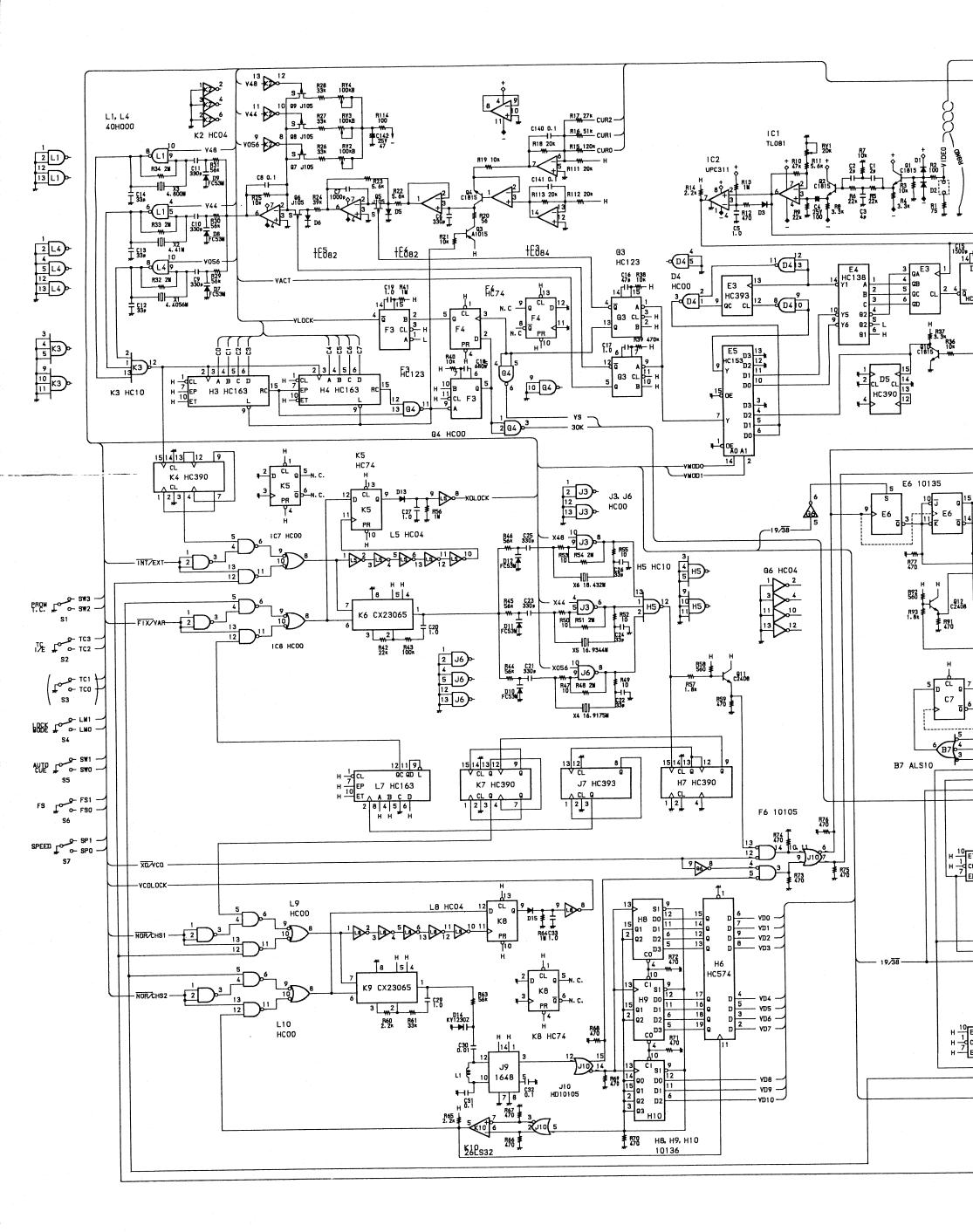


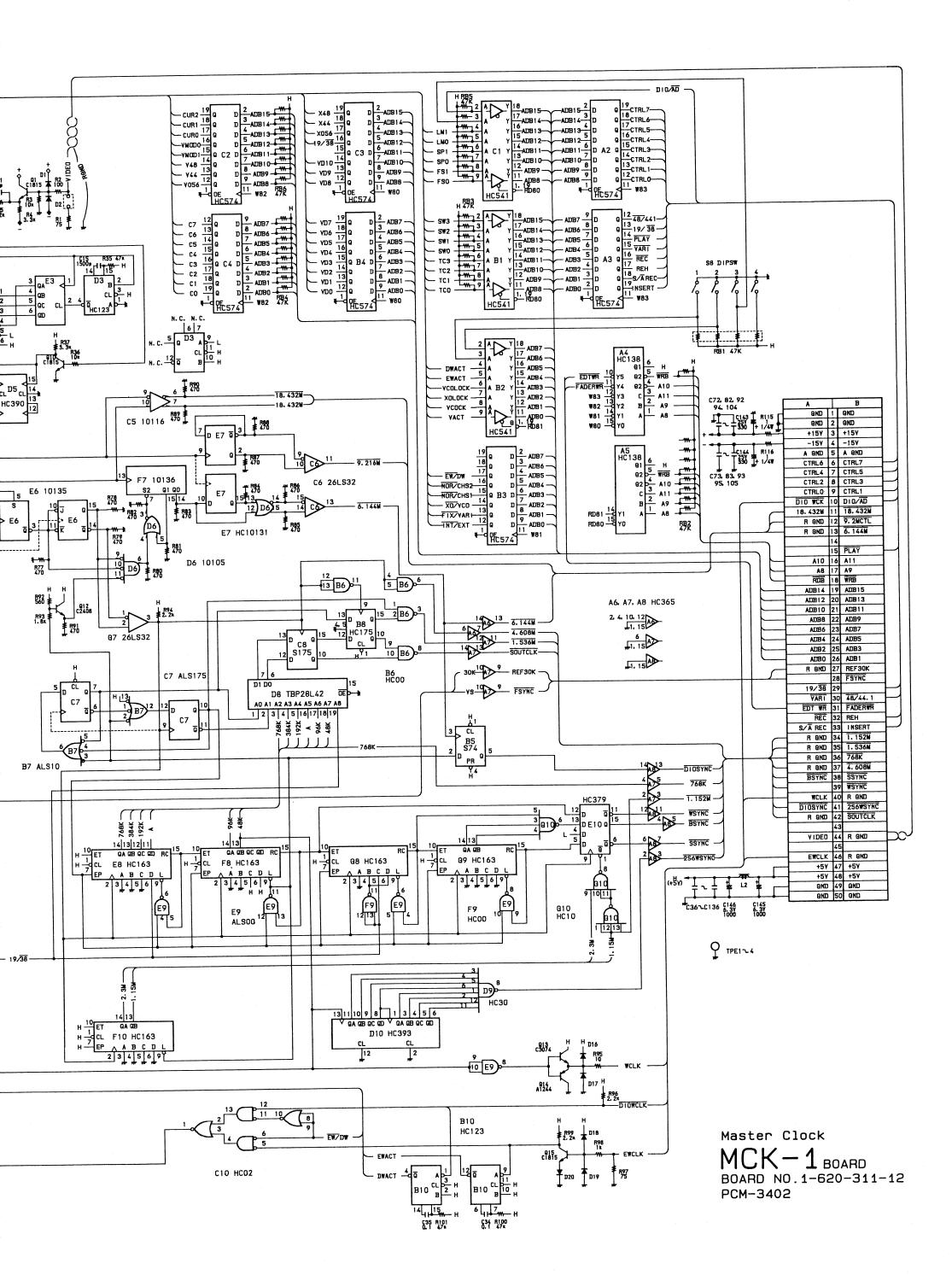






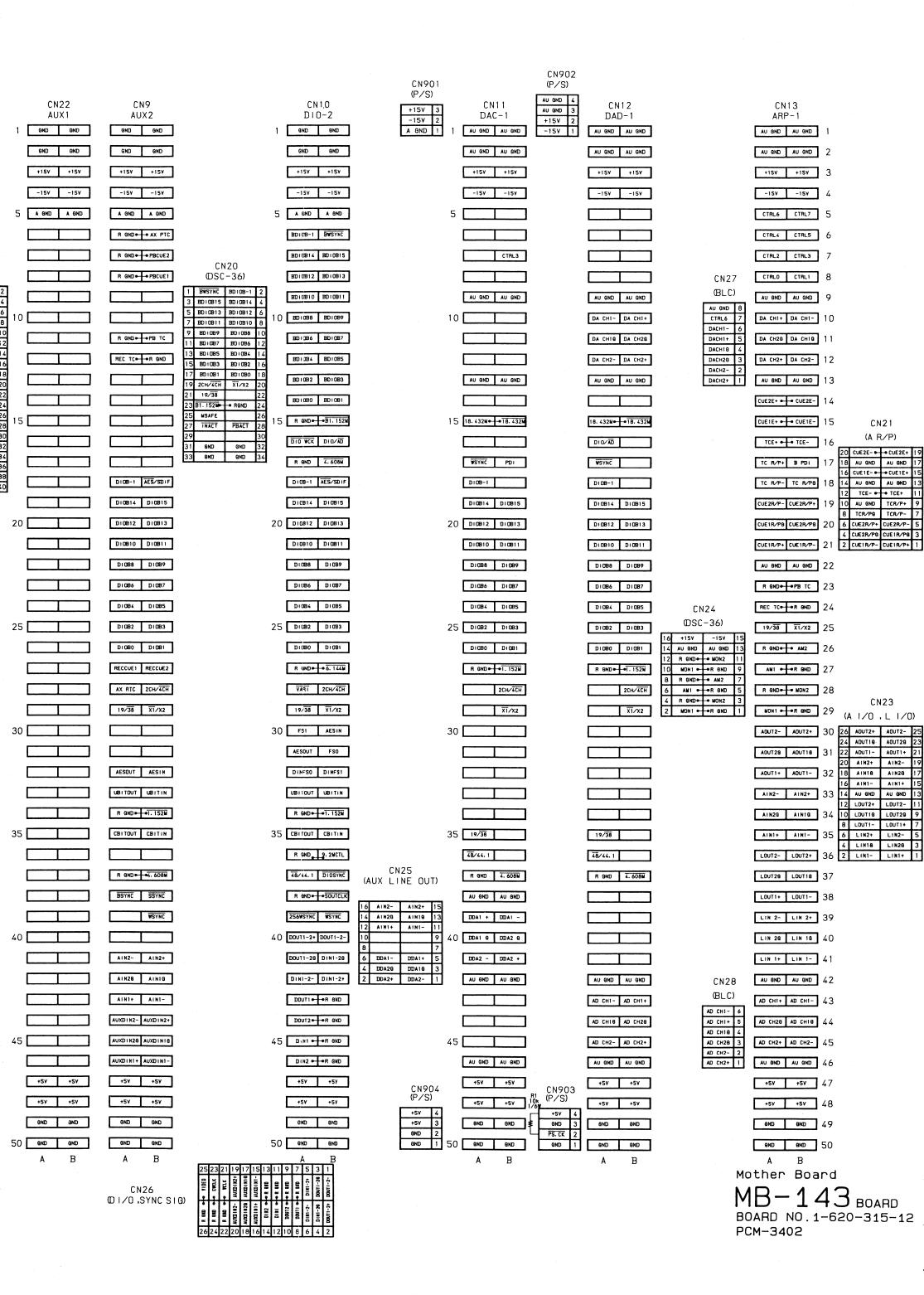
Interface IF-153 BOARD BOARD NO.1-620-497-13 PCM-3402

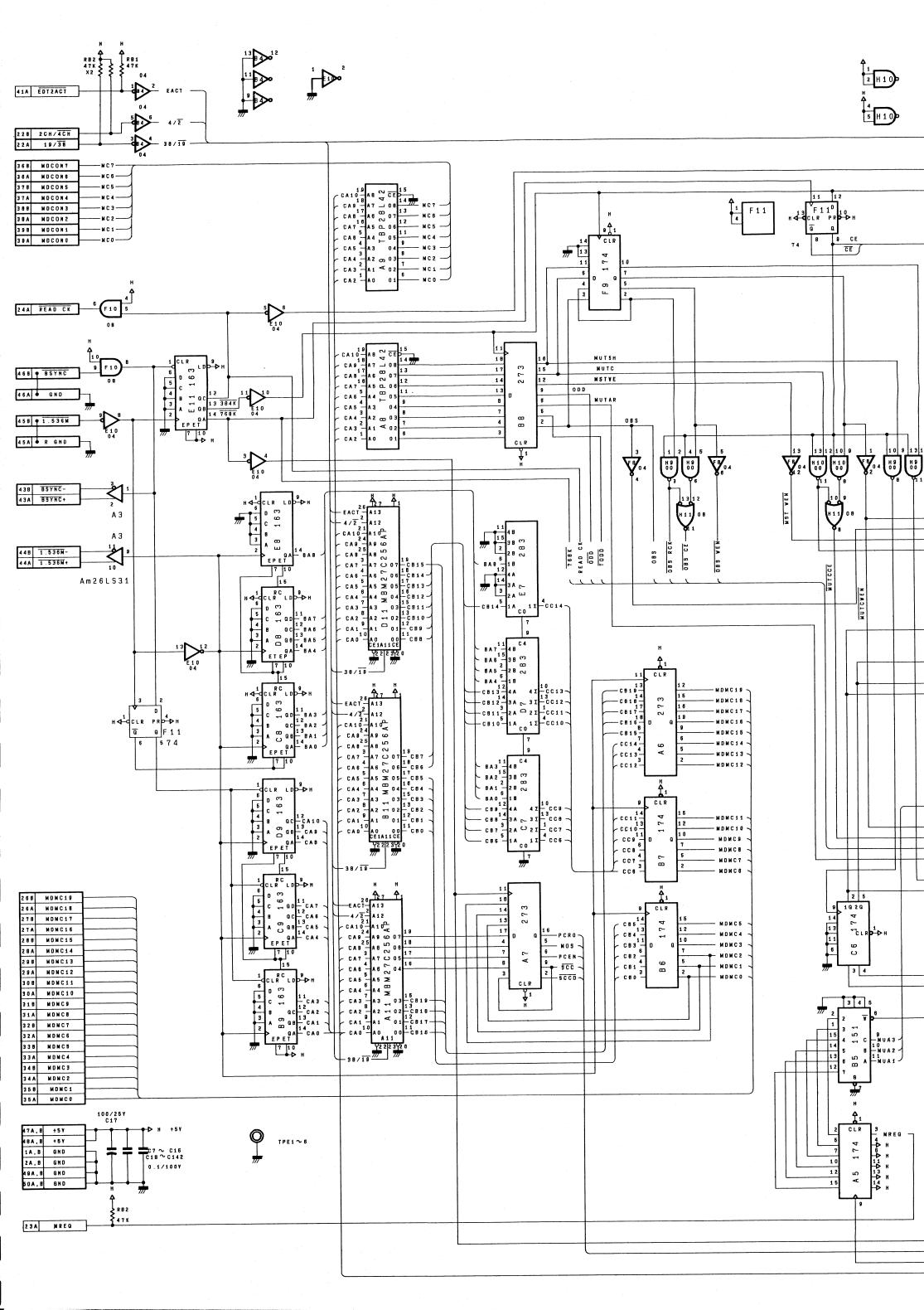


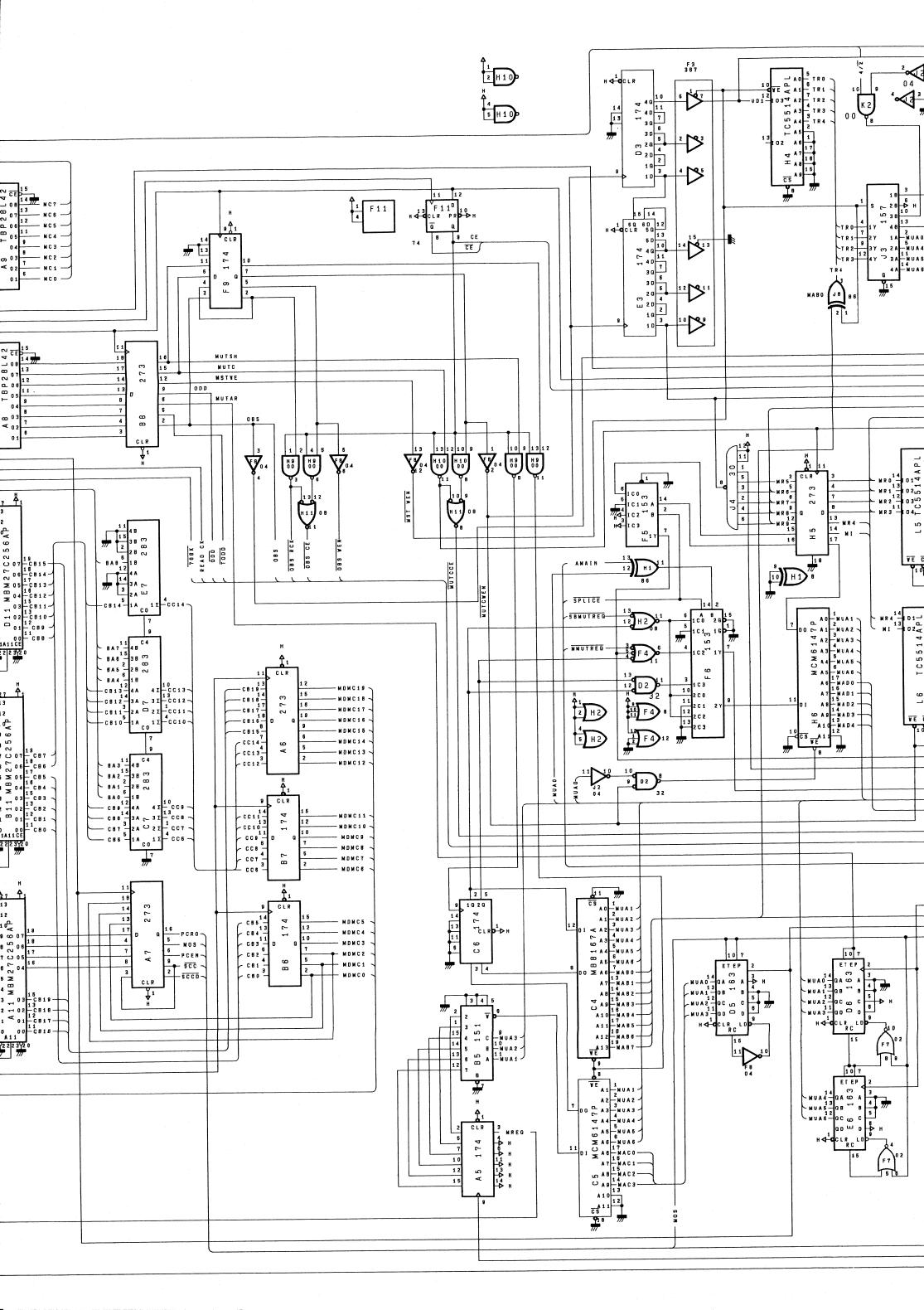


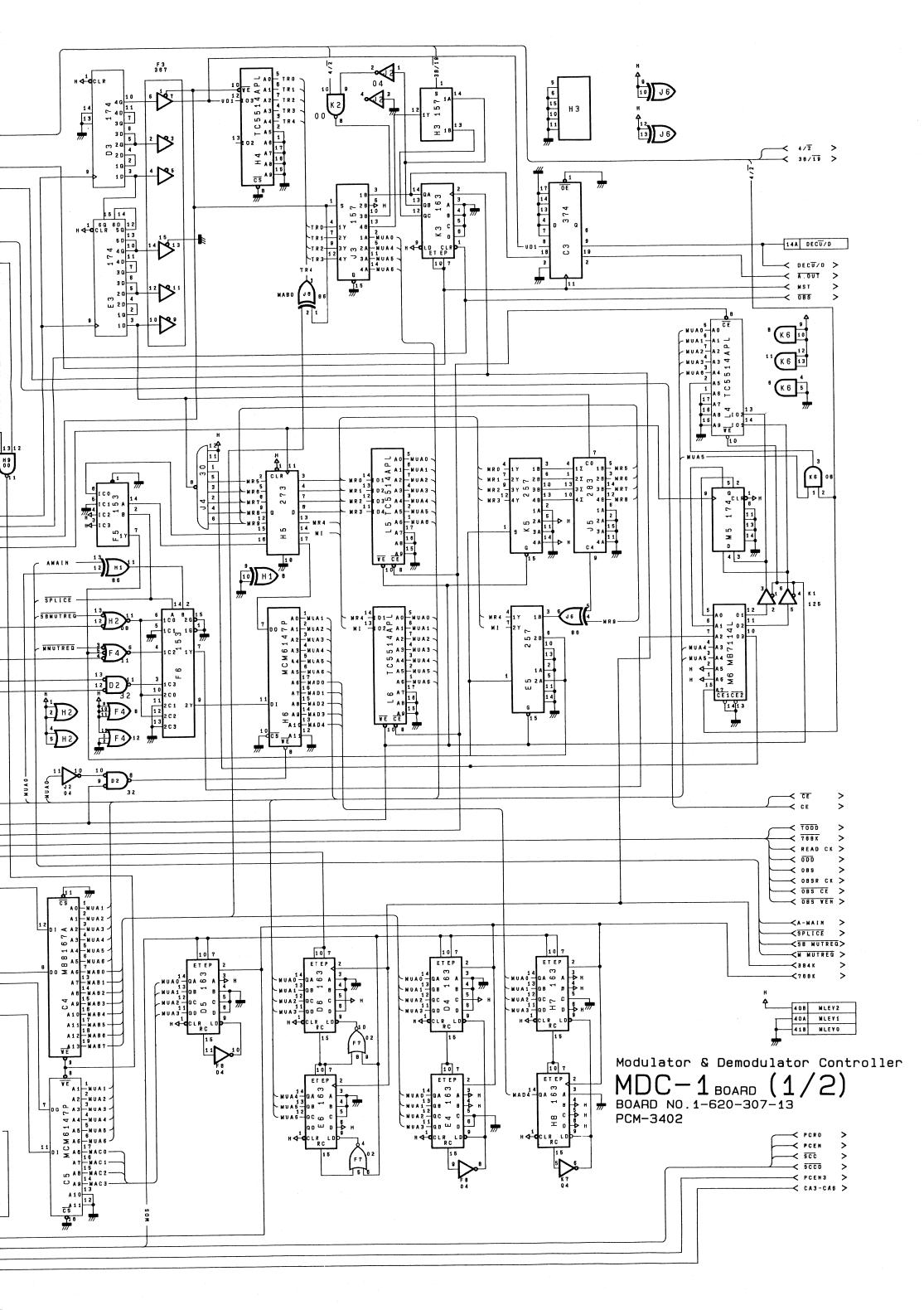
4X PIC 4X PIC 4 BID 4 BID 4 BID 4 BID CN17 **CN18 WET-4)** 34 32 30 28 26 24 22 20 18 16 14 12 10 8 6 4 2 CNI CN2 CN3 CN4 CN5 CN6 CN7 CN8 REC-1 SEP-1 MDM-2MDC-1ED-16 ED-17 CTL-1 MCK-1 AU GND GND GND GND BND BND GND BND BND BND GMD GND GND GND GNB GND GND 8ND GND 9ND GND BND GNB CINB GND GND GND GND OND GND GND 2 gND GND BND +157 DEBUS14 DEBUS15 +157 +157 +157 +157 DEBUSI4 DEBUSIS DEBUS14 DEBUS15 +157 3 +154 -15V -15V 4 -150 -15V R GND - PB OUT1 DEBUSI2 DEBUSI3 DEBUS12 DEBUS13 DEBUS12 DEBUS13 -15V -157 -15V DEBUS10 DEBUS11 5 A GND R 9ND → PB DUT2 ERB DEBUS10 DEBUS11 A BND A BND A OND A OND 5 A BHD A BHD DEBUS10 DEBUS11 CTRL6 CTRL7 DEBUS8 DEBUS9 GND 6 R BND → A-2D R BND - PB OUT3 DEBUS 8 DEBUS 9 DEBUS8 DEBUS9 CTRL4 CTRL5 DEBUS6 DEBUS7 7 A-ID → R GND R BND → →PB OUT4 DEBUS 6 DEBUS 7 DEBUS6 DEBUS7 CTLPHER- CTLPHER+ CN19 CN16 DEBUS 4 DEBUS 5 DEBUS4 DEBUS5 R BND - CFG 8 R BND - A-2B R GND - PB OUTS ERA DEBUS4 DEBUS5 CTRL2 CTRL3 (IF-151)(MON REC) R BND - REC TC 2 CTRLO CTRL1 A-CUEI OR BND 2 DEBUS2 DEBUS3 DEBUS2 DEBUS3 9 A-1B - R GND R GND → PB OUT6 DEBUS 2 DEBUS 3 R BND - PB TC 4 -M-CUE2 4 R GND . EDT IN S EDT EX S 6 DID WCK DIO/AD R BND • • PB OUT7 DEBUSO DEBUS1 DEBUSO DEBUSI R GND - - PBCTL 10 R BND - A-2C 1 () DEBUS 0 DEBUS 1 10 A GND BND R GND . → RDB A~2D ◆ ⊸RBND 8 R GND+ → WRB CORRECT 18. 432M• •18. 432M DIOB-1 DEBUS-1 9 R GND-● A-1D 1 1 A-1C - R GND R BND - PB OUTB DEBUS-1 D1078-1 DEBUS-1 A11 A10 A-2B ◆ →R GND A8 12 R BND - A-2A ENDUT2 ENDUT1 ENOUT2 ENDUT1 D10814 D10815 D101814 D101815 R BND• •9.2MCTL R BND - 9. 2MCTL - A-1B ADB 15 ADB14 ●R BND A-2C . ADB13 ADB12 D10B12 D10B13 D107812 D10813 R 8ND - -6.144M → A-1C 18 A-1A → →R GND ENOUT4 ENOUT3 ENOUT4 ENOUT3 17 R GND ADB 11 ADB10 A-2A - R BND 20 ADB9 ADB8 DEC W/D D10B10 D10B11 14 R OND - A-CTL ENOUT6 ENOUTS ENOUT6 ENOUTS DIOB10 DIOB11 21 R GND - A-1A 22 ADB7 ADB6 A-CTL - R BND 24 ADB5 CORCT+ CORCT-SPREF PLAY PLAY ENOUTS ENOUT7 → A-TC 26 DIOB8 DIOB9 DIOB8 DIOB9 R GND -15 R BND - S-2D 15 ENOUTS ENOUT7 ADB3 ADB1 ADB0 PERO+ PERO-A10 A10 16 S-1D • R GND SEP014 SEP015 SEP014 SEP015 D1086 D1087 DIOB6 DIOB7 A:1 A11 B PDI FSYNC REF30K 17 R BND → S-2B SEP012 SEP013 SEP012 SEP013 PERO D1084 D1085 D10084 D10085 A8 A9 A8 A9 SP REF 36 BND BND BND 18 S-18 - R GND SEP010 SEP011 SEP010 SEP011 ERA+ ERA-D1082 D10B3 D100B2 D100B3 RDB WRB ROB WRB BND BND SEP08 SEP09 SEPO 8 SEPO 9 ERB+ ERB-DIOBO DIOBI D1080 D1081 ADB14 AES/SDIF ADB14 ADB15 19 R BND - 5-2C SEP06 SEP07 SEPO 6 SEPO 7 ADB14 ADB15 20 S-1C → R GND PCD ADB12 ADB13 ADB12 ADB13 ADB12 ADB13 20 SEP04 SEP05 21 R BND - S-2A SEPO 4 SEPO 5 DEC WD+ DEC WD-ADB10 ADB11 ADB12 ADB13 ADB10 ADB11 ADB10 ADB11 22 S-1A - R GND SEP02 SEP03 SEPO 2 SEPO 3 19/38 2CH/4CH ADB8 ADB9 ADB10 ADB11 ADB8 ADB9 ADB8 ADB9 CN15 23 R BND - S-CTL SEP00 SEP01 SEPO 0 SEPO 1 MRED ADB6 ADB7 ADB8 ADB9 ADB6 ADB7 ADB6 ADB7 (SYNC REC) 1 S-CUE1 - R OND 2 24 ENDUT2 ENDUT1 CORRECT CRC READ CK ADB6 ADB7 ADB4 ADB5 CRC ADB 4 ADB5 ADB4 ADB5 3 R BND - S-CUE2 EMPO 25 PERD PCD SMUTE CTLJP 25 A GND 25 ENOUT4 ENOUT3 ADB 2 ADB3 ADB4 ADB5 ADB2 ADB3 ADB2 ADB3 25 A GND ●R BND S-2D • 26 ENOUTS ENOUTS XADRS1 XADRS0 MDMC18 MDMC19 MDMC18 MDMC19 ADB0 ADB 1 ADB2 ADB3 ADB0 ADB1 ADB0 ADB I R BND ← - S-1D -R BND 11 S-2B • BND XADRS2 MDMC16 MDMC17 MDMC16 MDMC17 ERA ERB ADBO ADB 1 CTLJP REF30K 27 ENDUTB ENDUT7 13 R BND - 5-1B S-2C ● —eR BND READCK 17 R 6ND . Al 1 FSYNC A10 - S-1C 28 RECCUE1 RECCUE2 MDMC14 MDMC15 MDMC14 MDMC15 S-2A → ⊸R BND 29 AX RTC 19/38 MSAFE 19/38 21 R 9ND - S-1A MONC12 MONC13 MDMC12 MDMC13 SMUTE DECU/D AB 49 S-CTL -●R BMD 25 R BND - S-TC 26 30 MSAFE 2CH/4CH BPH0 BPH1 MDMC10 MDMC11 MDMC10 MDMC11 WRB RDB FS1 VARI 48/44.1 EMP0 MDMC8 MDMC9 MDMC8 MDMC9 XADRS1 XADRS2 EDT IN S EDT EX S FS0 EDT WR FADERWR 31 R BND - - CUE1 REC REH MDMC6 MDMC7 XADRS0 DINFSO DINFSI 32 A-CUE2- R GND MDMC6 MDMC7 EDT WR FADERWR EDT WR A-TC → R GND MDMC4 MDMC5 MDMC4 MDMC5 S/A REC X1/X2 S/A REC INSERT 34 R BND - -S-CUE1 MDMC2 MDMC3 MDMC2 MDMC3 19/38 2CH/4CH 19/38 2CH/4CH 19/38 2CH/4CH R 9ND - -1.152M R GND - -1.536M 35 S-CUE2- OR OND MDMCO MDMC1 MDMC0 MDMC1 35 **[** 36 S-TC ← R GND MDCON6 MDCON7 MDCON6 MDCON7 R 9ND • 768K REC ON PB/IN PB/IN R BND - 4. 608M 37 REC ON CTRL2 MDCON4 MDCON5 MDCON4 MDCON5 38 CTRL1 CTRL0 MDCON2 MDCON3 MDCON2 MDCON3 PBACT INACT BPH0 BPH1 BSYNC SSYNC REC REH RECCTL MDCONO MDCON1 MDCONO MDCON1 REC REH RECCTL WSYNC 39 S/Ā REC MLEV1 MLEV2 MLEV1 NLEV2 40 INSERT SZĀ REC INSERT S/Ā REC RECBA1 RECBA2 WCLK - R BND 40 40 EDTZACT MLEVO CTLRECON CUTINSEO CTLRECON CUTINSEQ DIOSYNC 256WSYNC 41 CTLRECON 19/38 MLEVO PLAY RECBA1 RECBA2 BSYNC+ BSYNC-R 9ND → -1.152M R GND - -1.152M SSYNC 44 R BND - 768KHZ R GND - 768KHZ R GND - -1.152M 1.536M+ 1.536M-R GND - 4. 608M R GND - 4. 608M VIDEO - R BND GND WSYNC WSYNC R BND . 4. 608M 45 R BND . 1. 536M R GND - -1.536M 45 GND WSYNC 9ND SSYNC 46 GND BSYNC GND BSYNC GND BSYNC GND BSYNC GND BSYNC EWCLK - R BND +57 +57 +57 +57 +57 +57 +57 +57 +57 +57 +57 +57 +57 +57 +57 +57 +57 +5V +57 +57 +57 +57 +57 +57 +57 +57 +57 +5V +5٧ +5٧ +57 +57 +57 GND GND 49 GND GND GNB GNB OND OND CIMB CIMB GND GND GNB GNB BND GND 9ND 50 GND GND вио вио 50 вио GND **BND** 50 9ND BND GND GND GND BND GND BND GND 50 gMD В Α В A В В Α 25 23 21 19 17 15 13 11 9 7 5 3 1 C:N14 (ERROR STATUS)

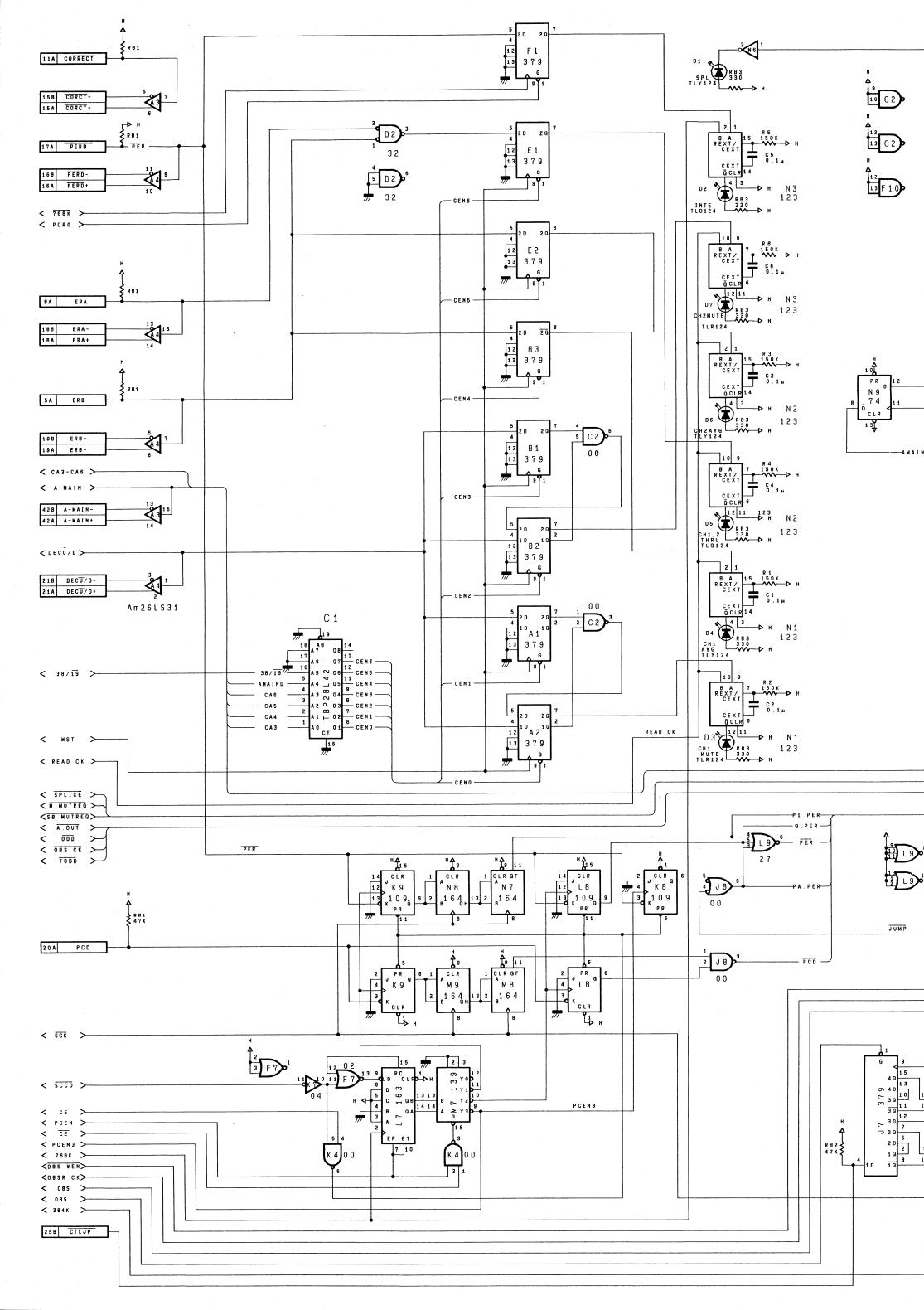
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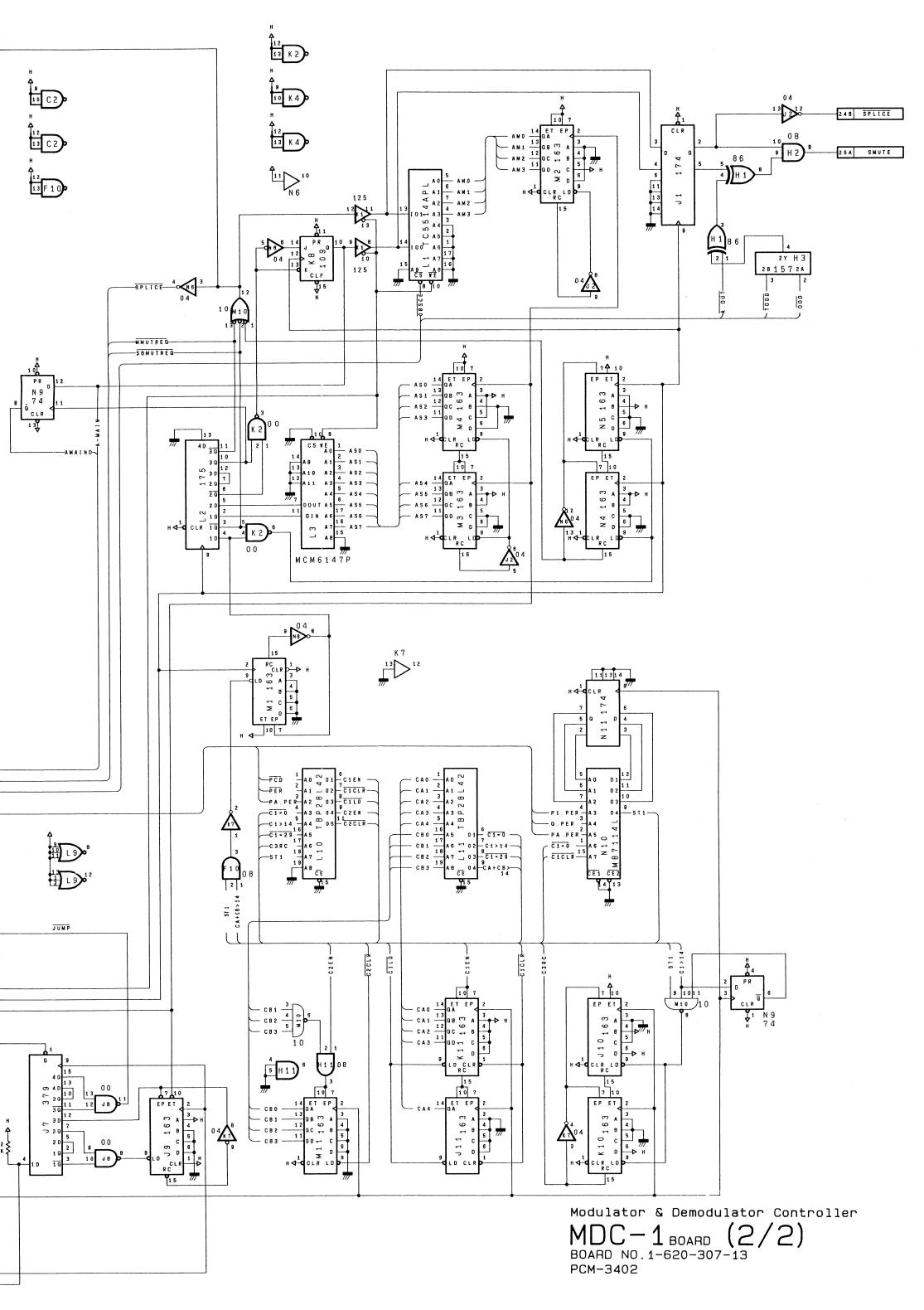


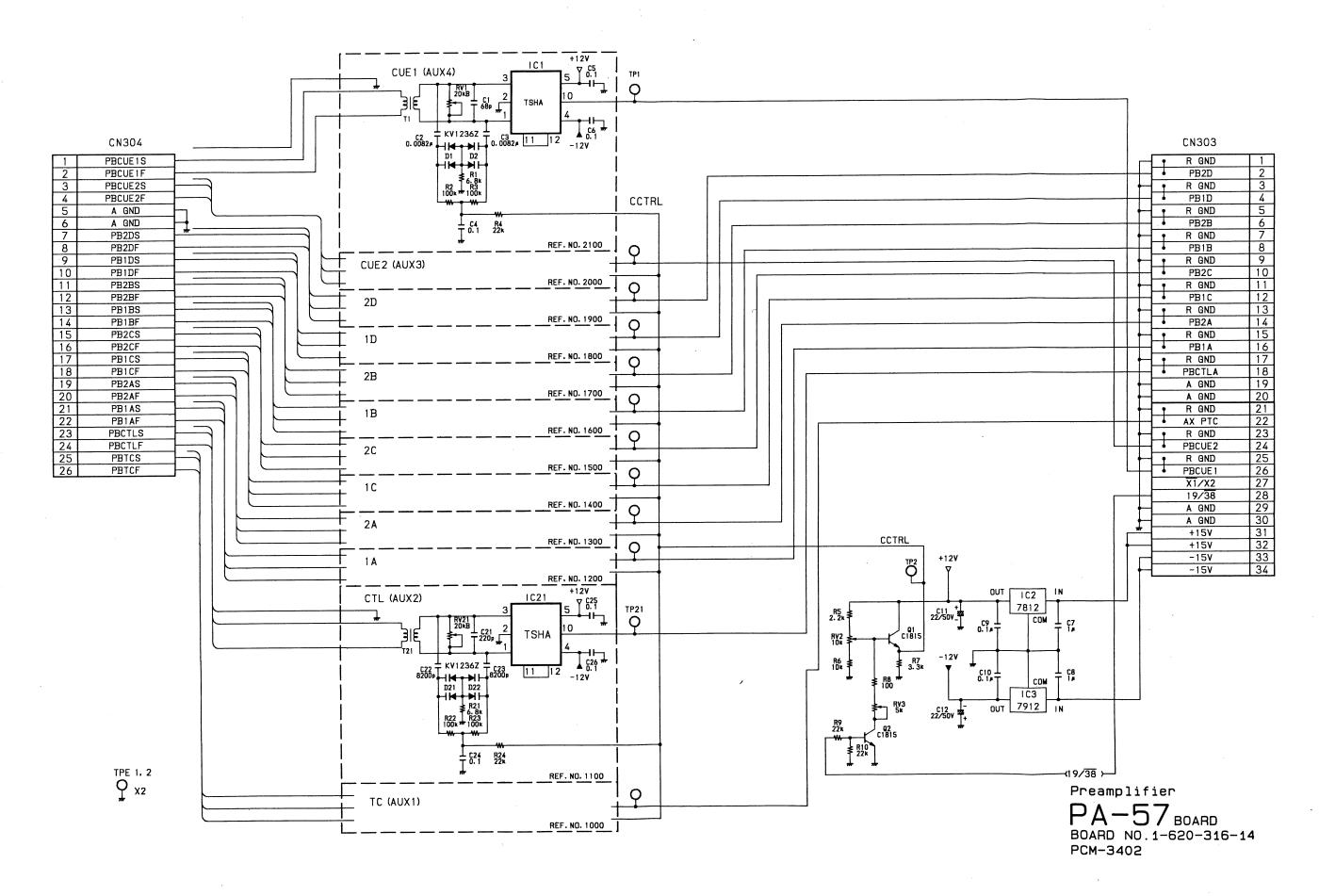


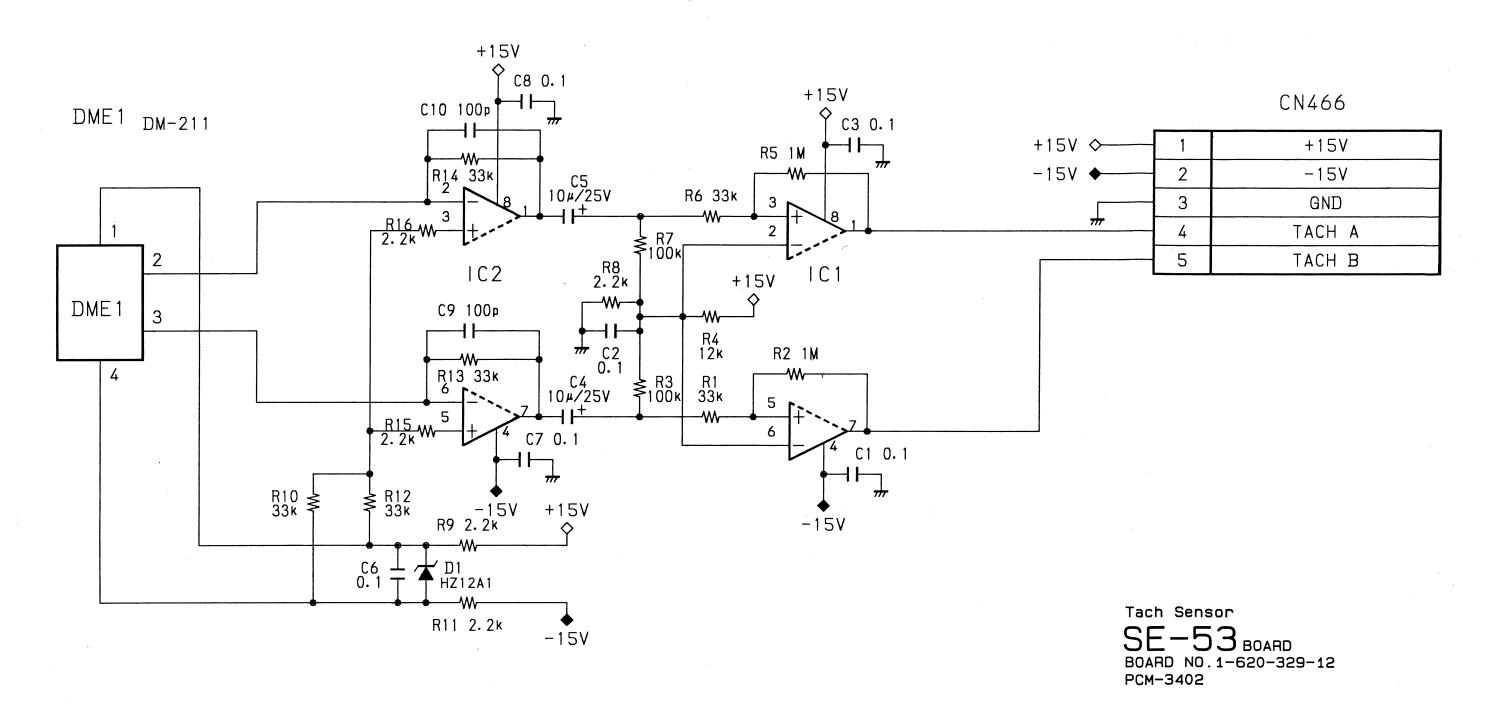


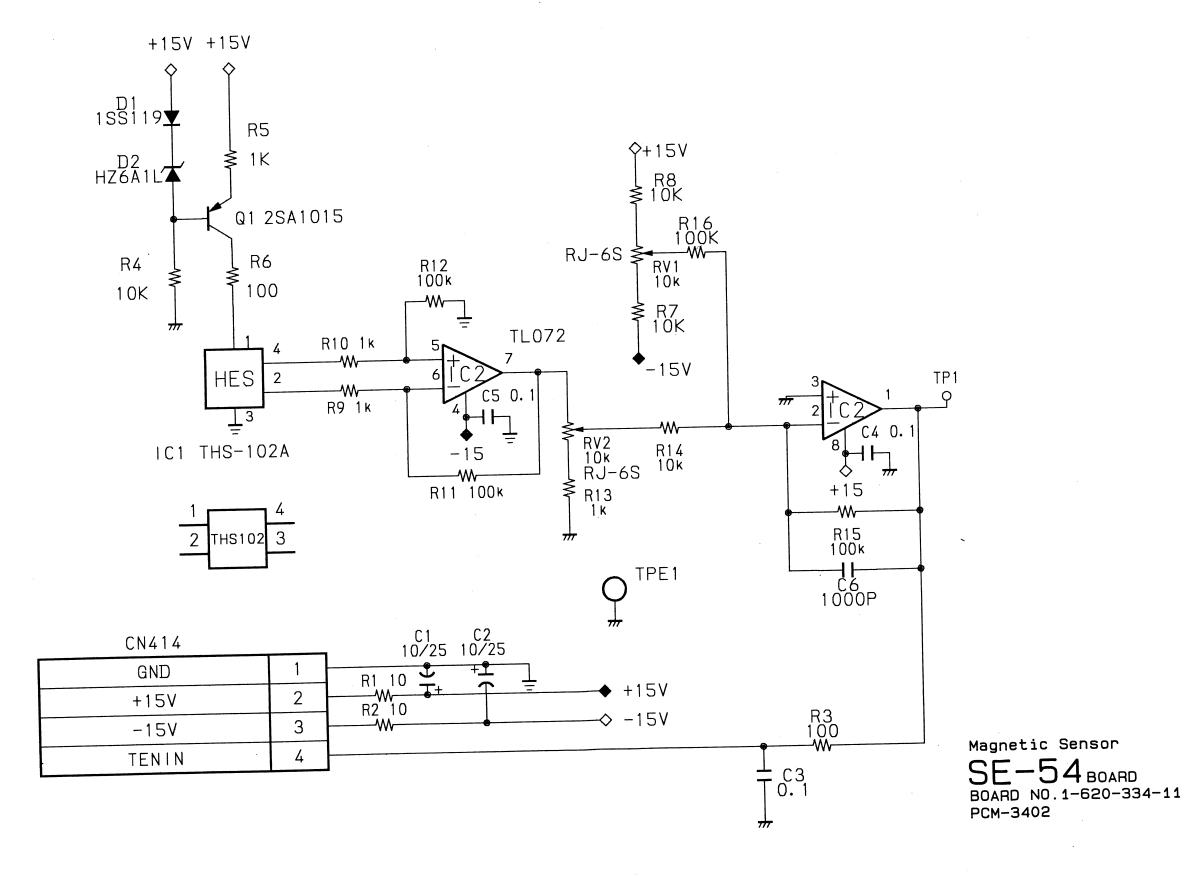


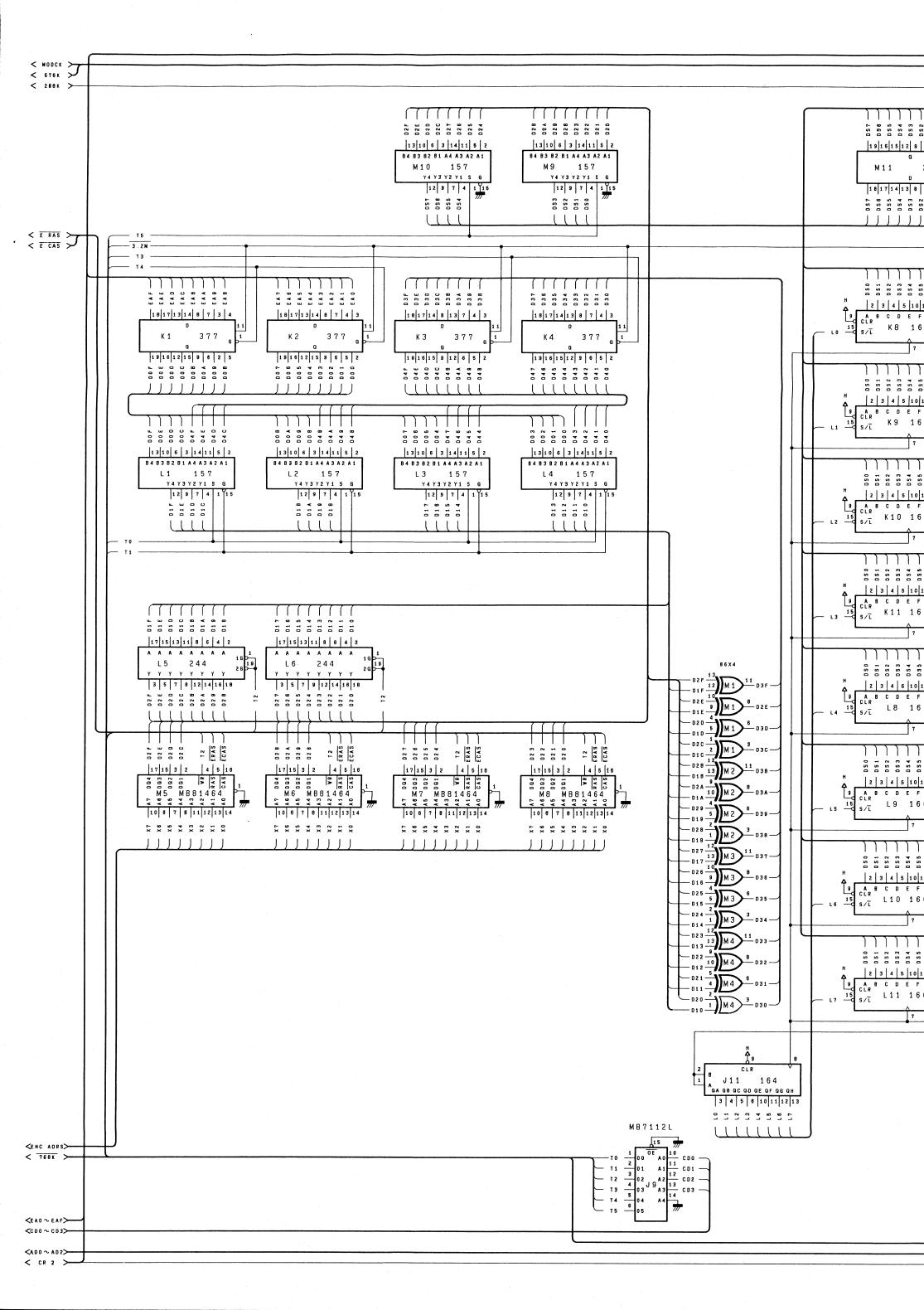


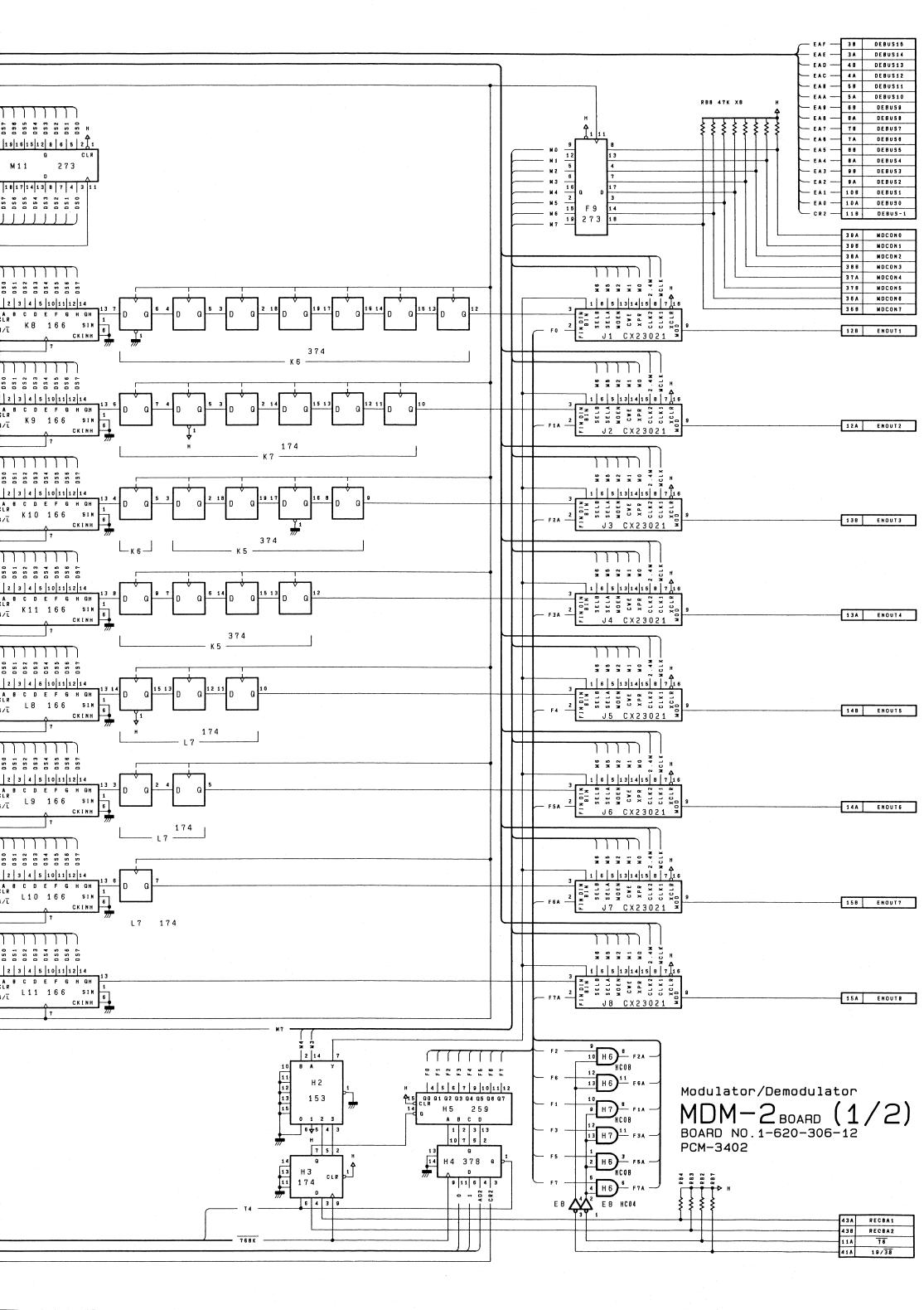


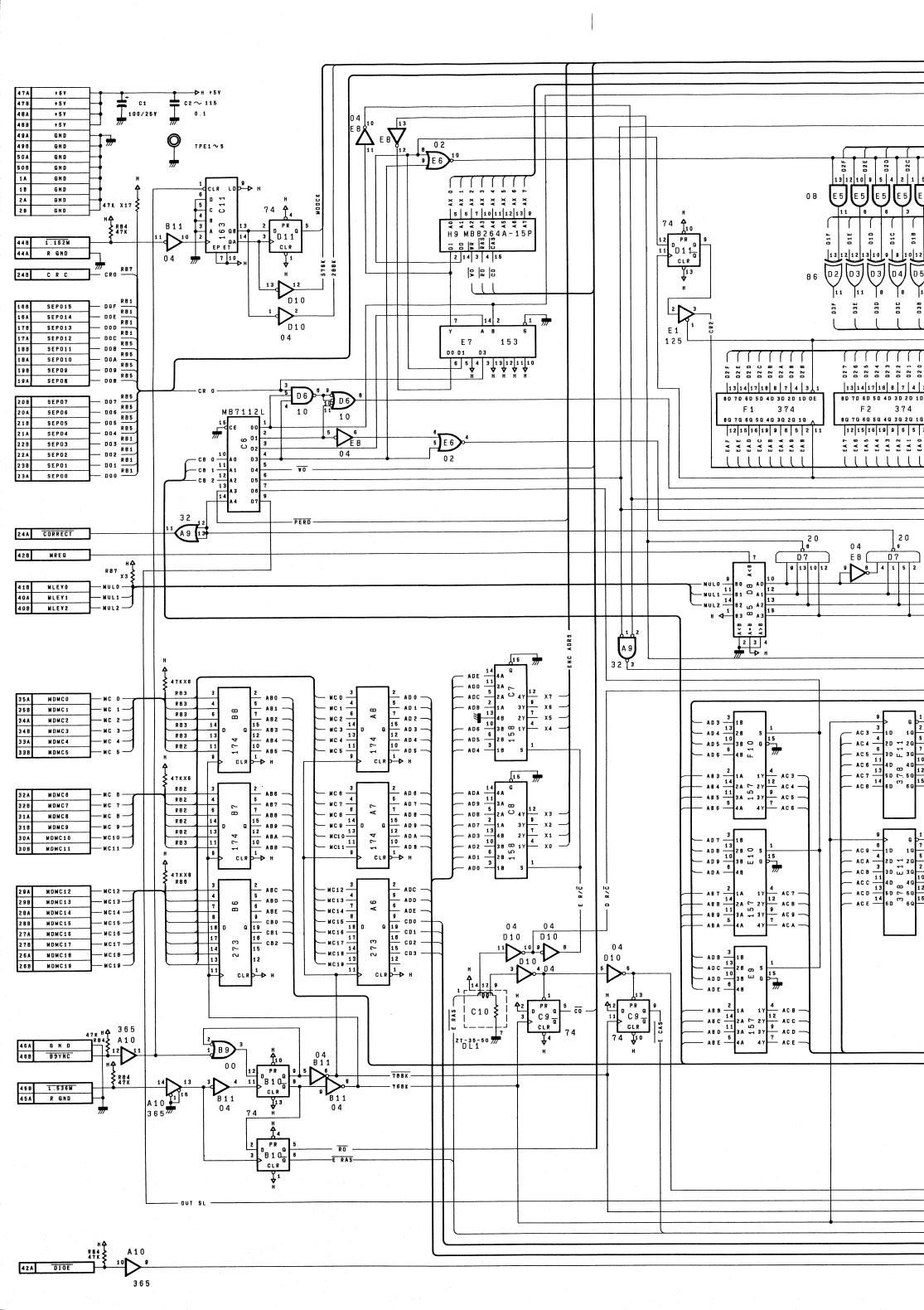


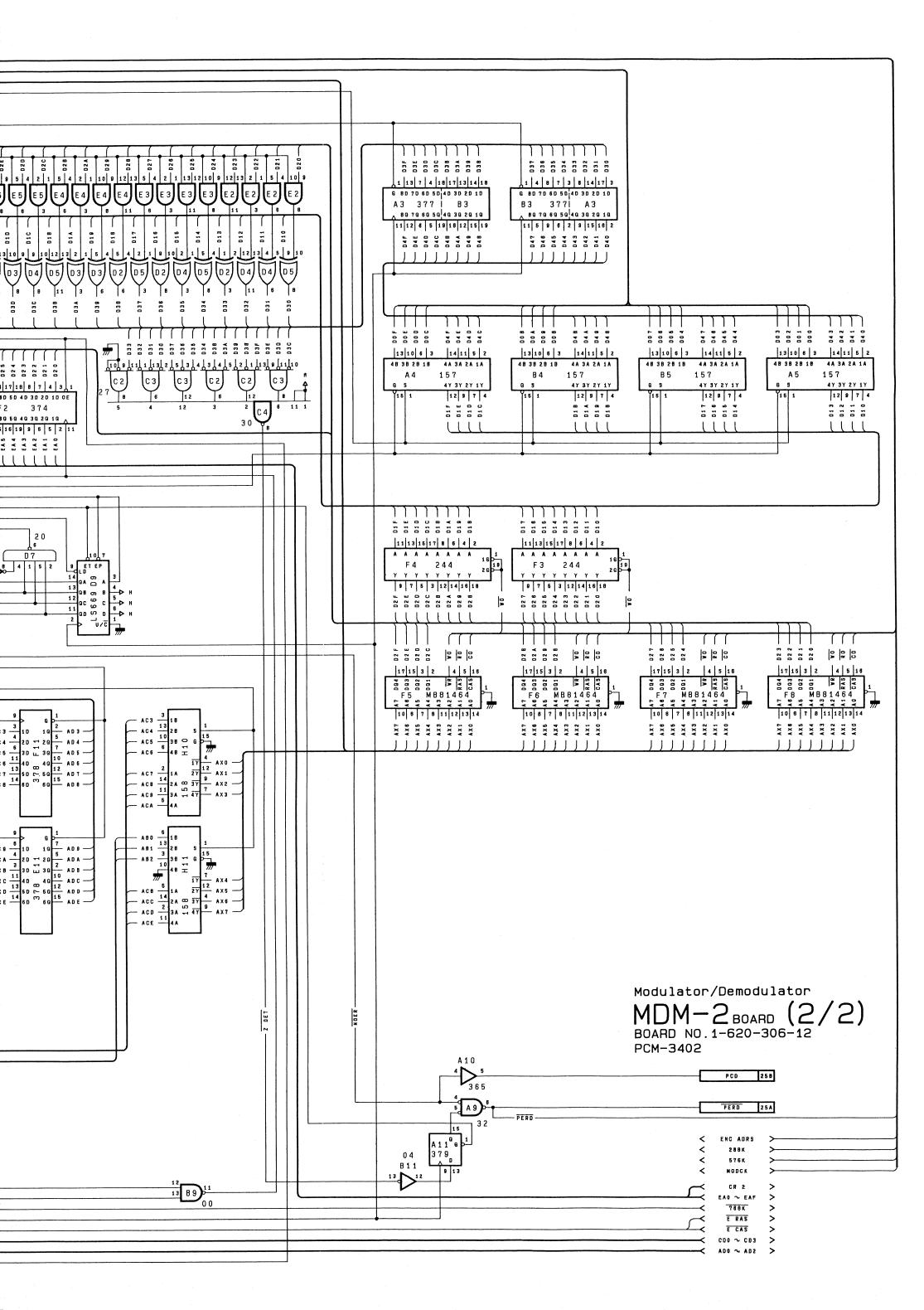


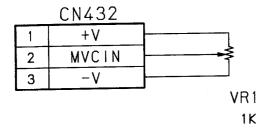




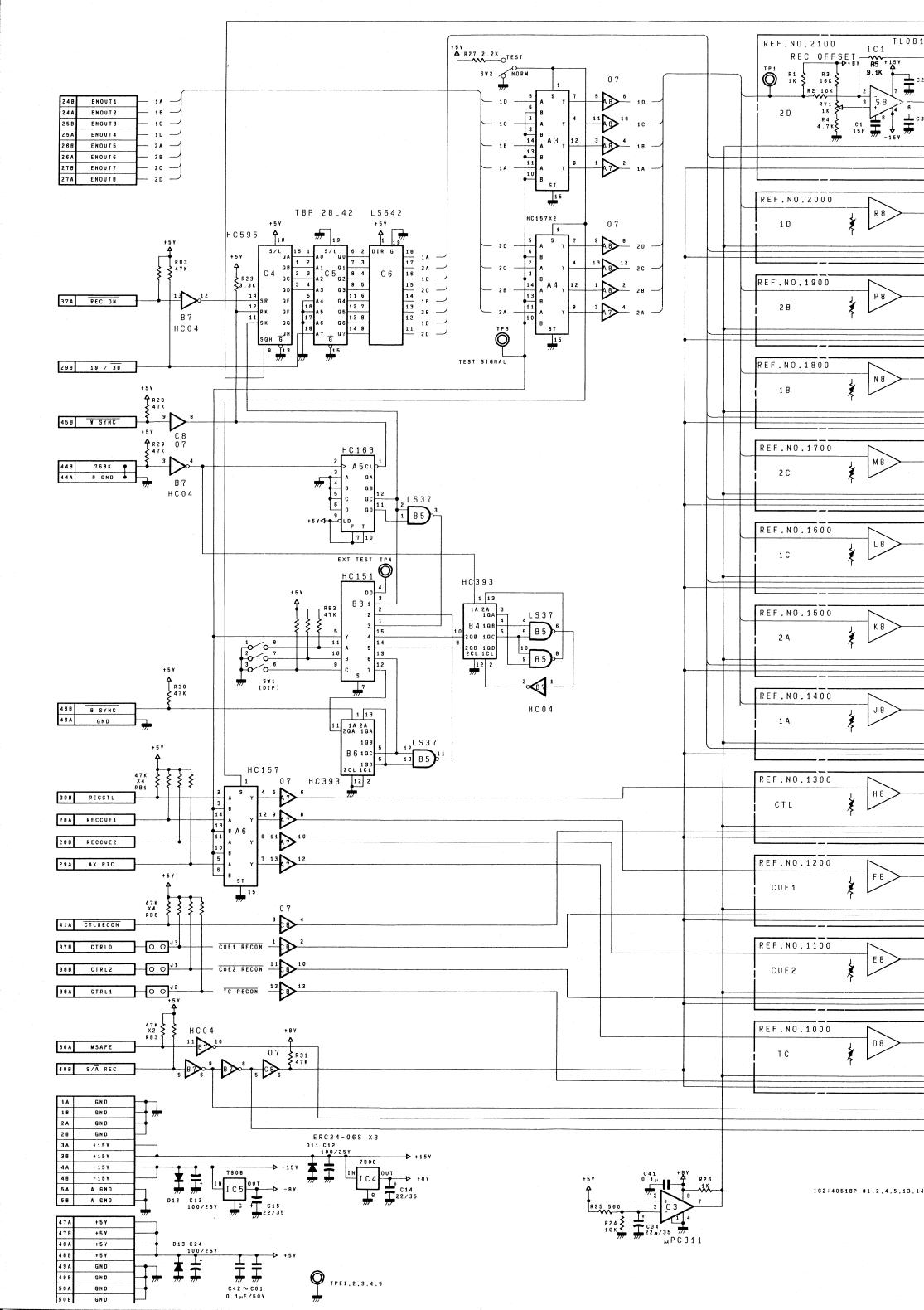


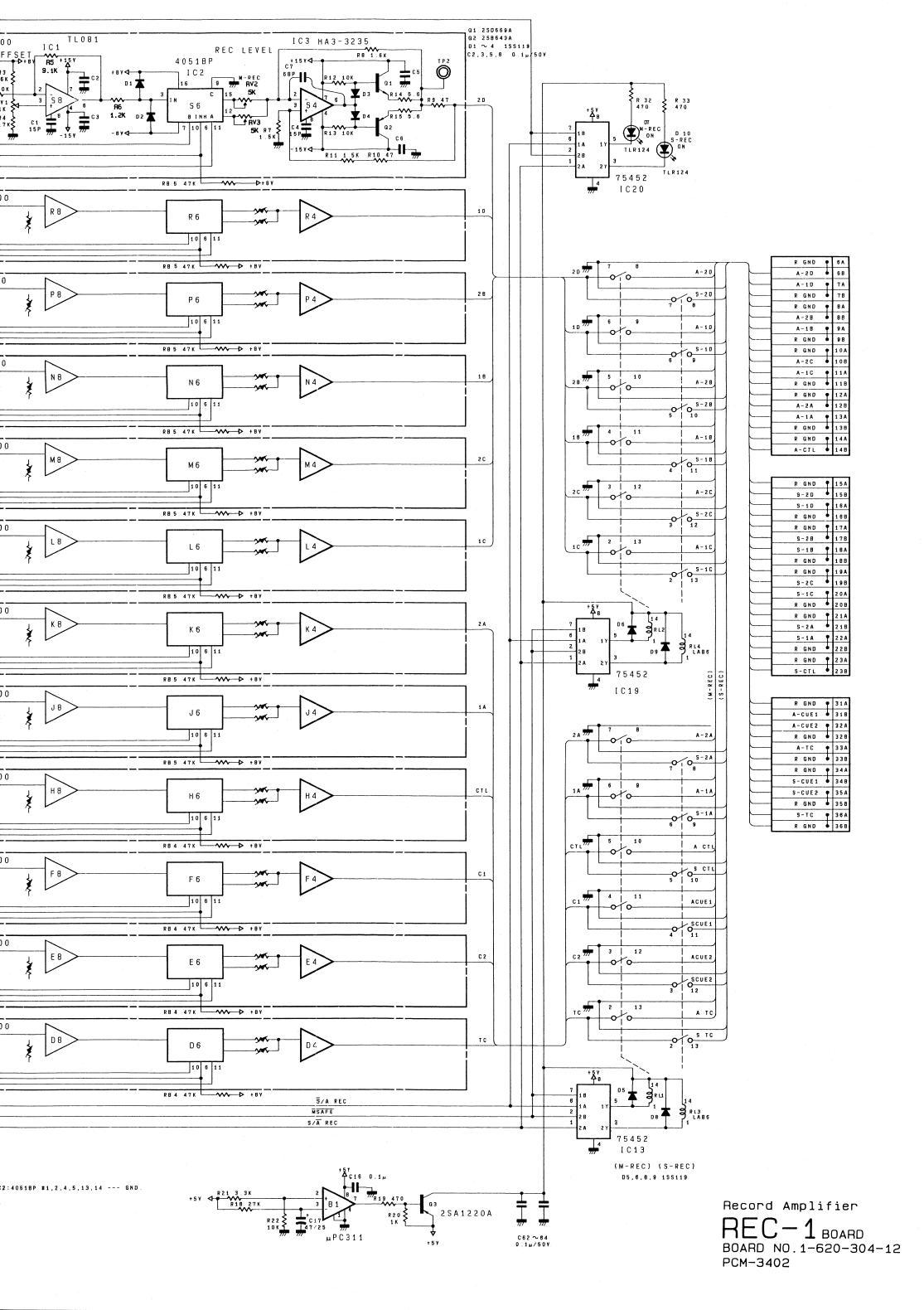


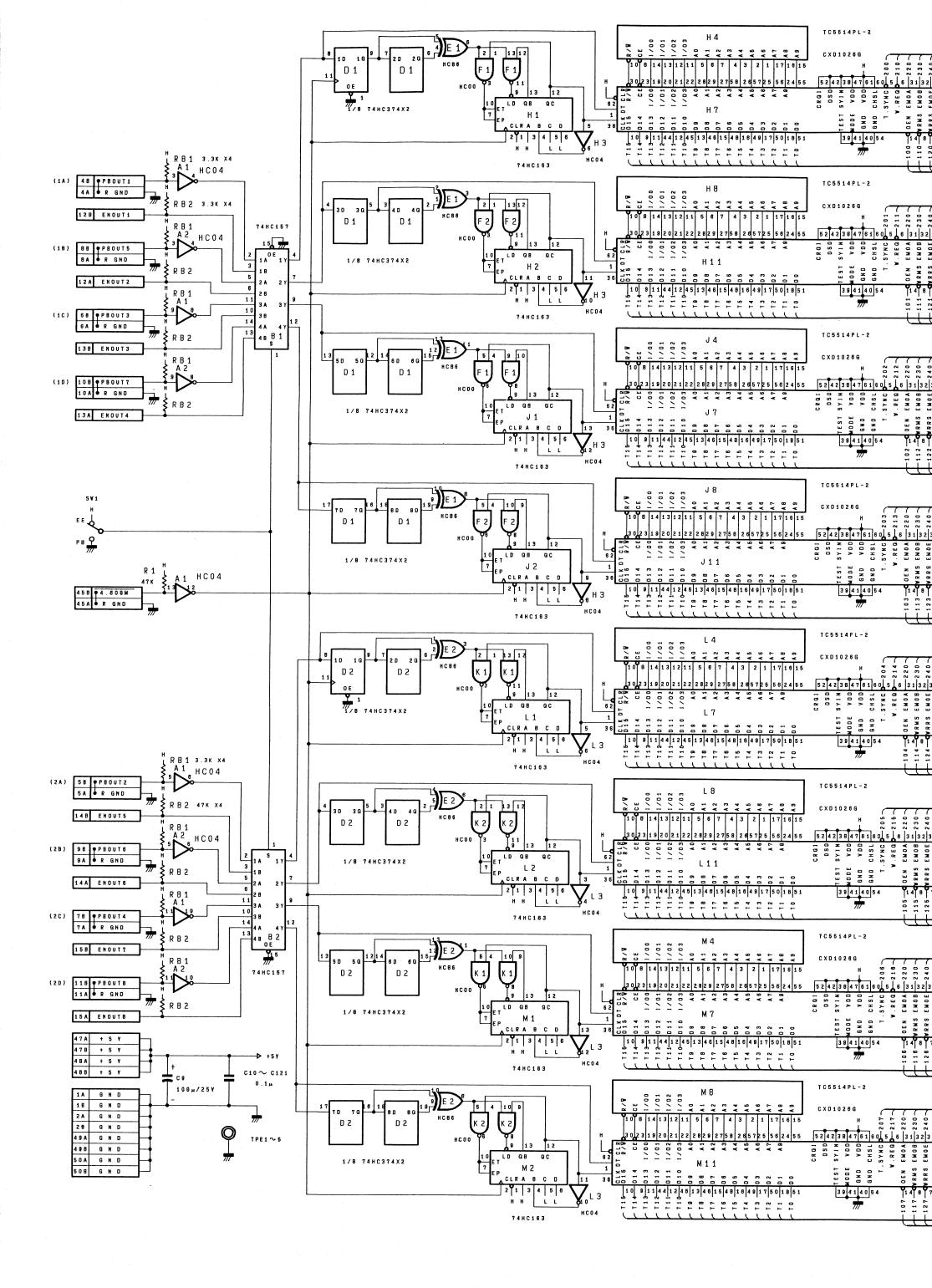


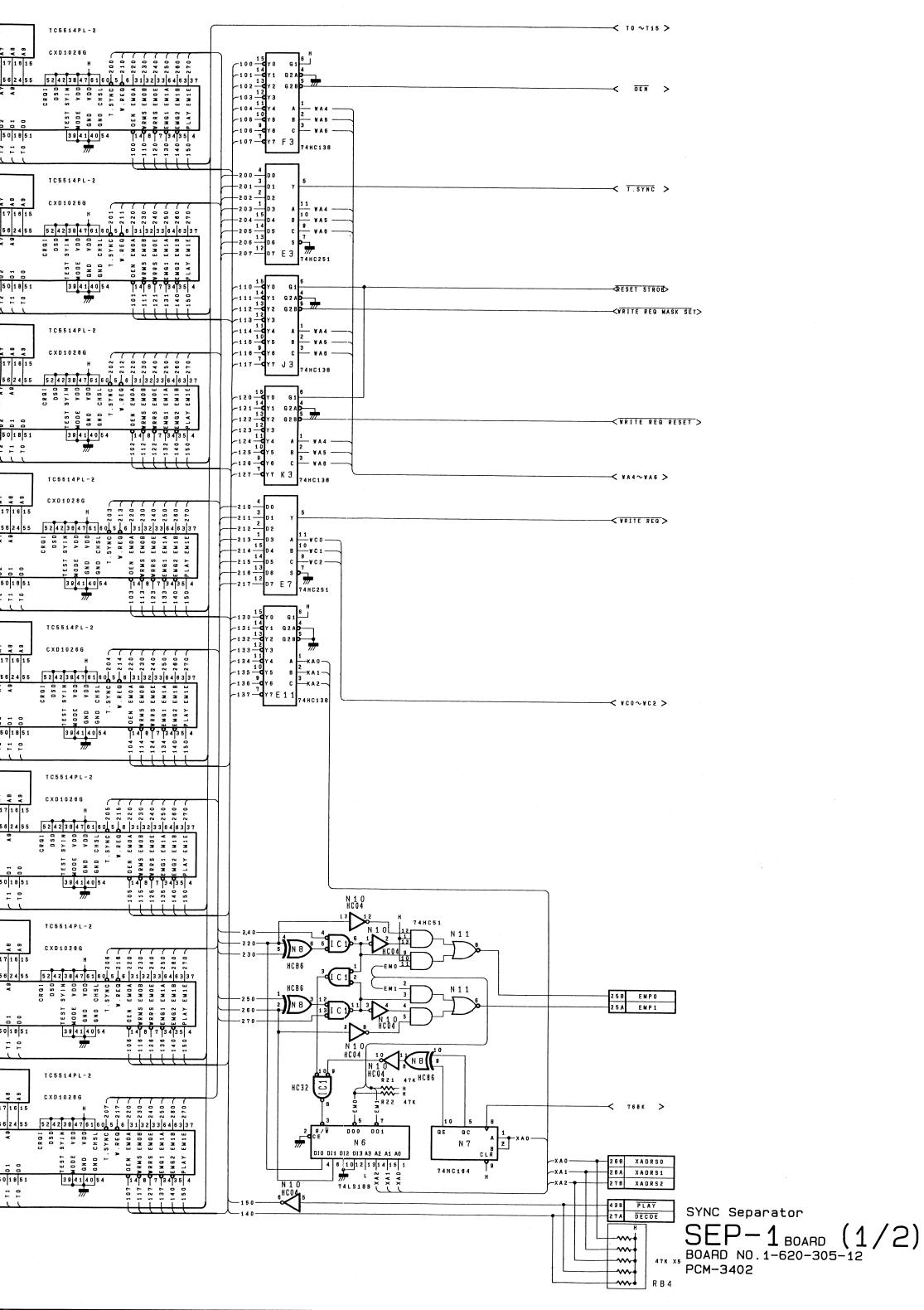


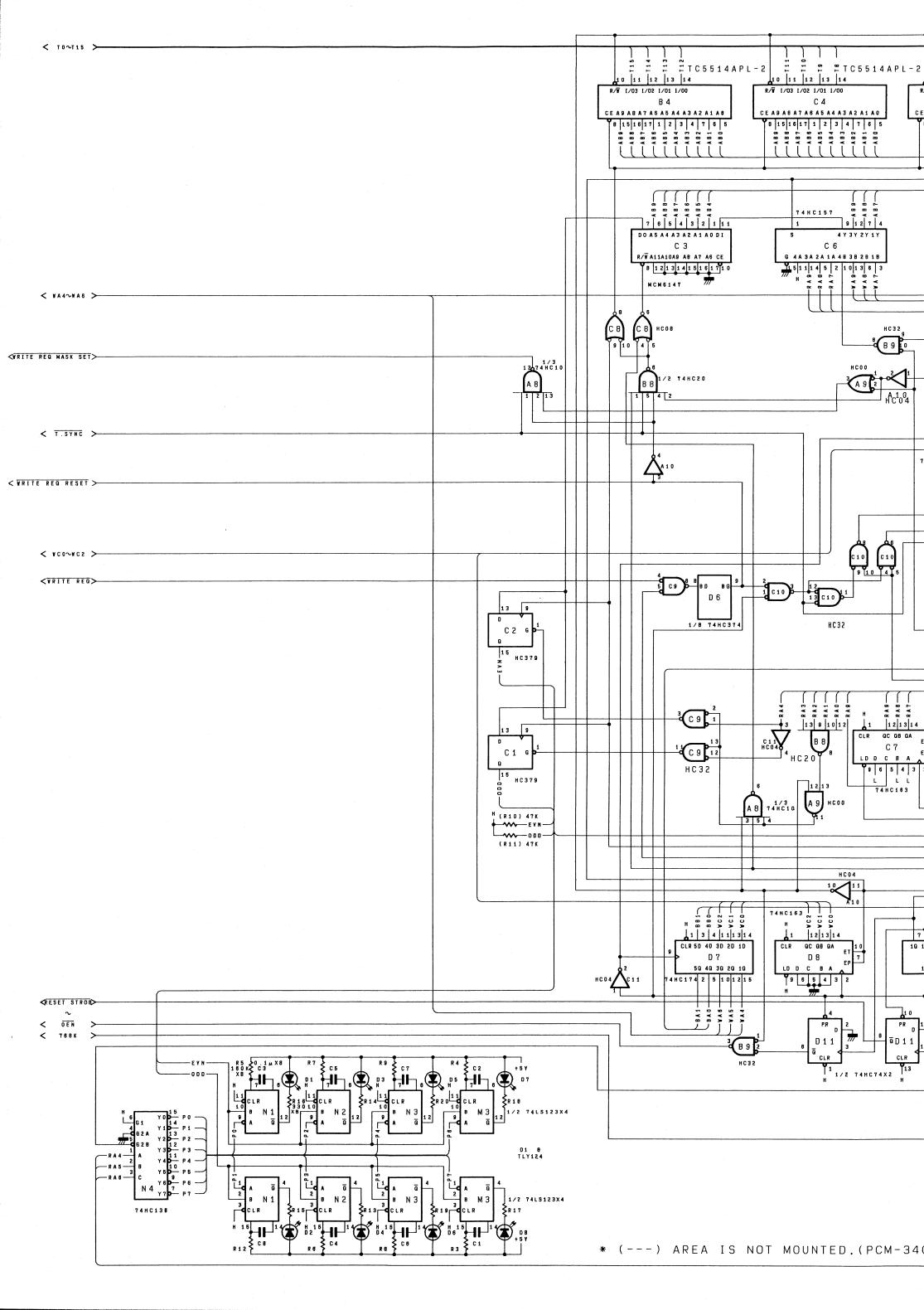
Variable Resistor
VR-56 BOARD
BOARD NO.1-620-326-12
PCM-3402

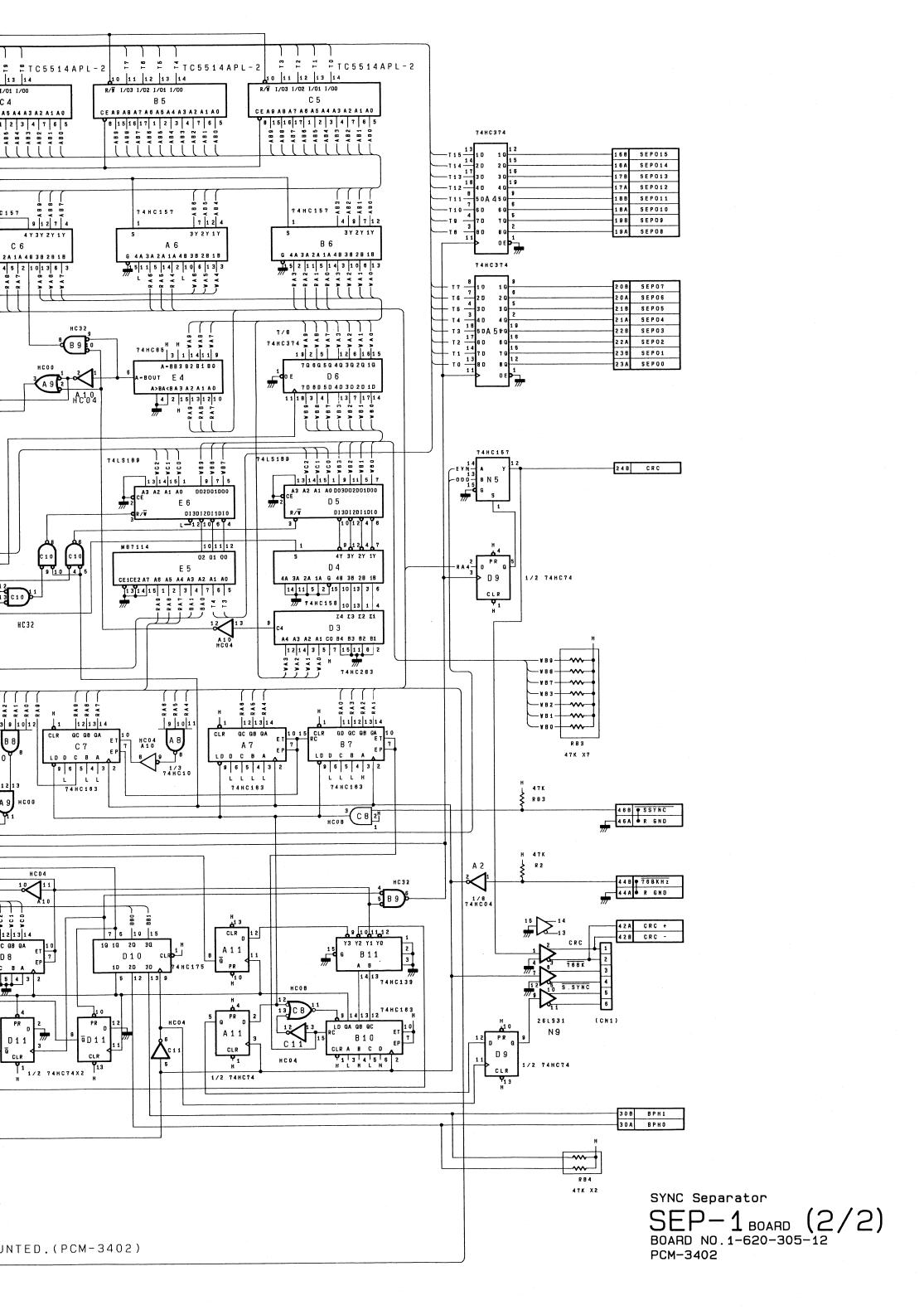


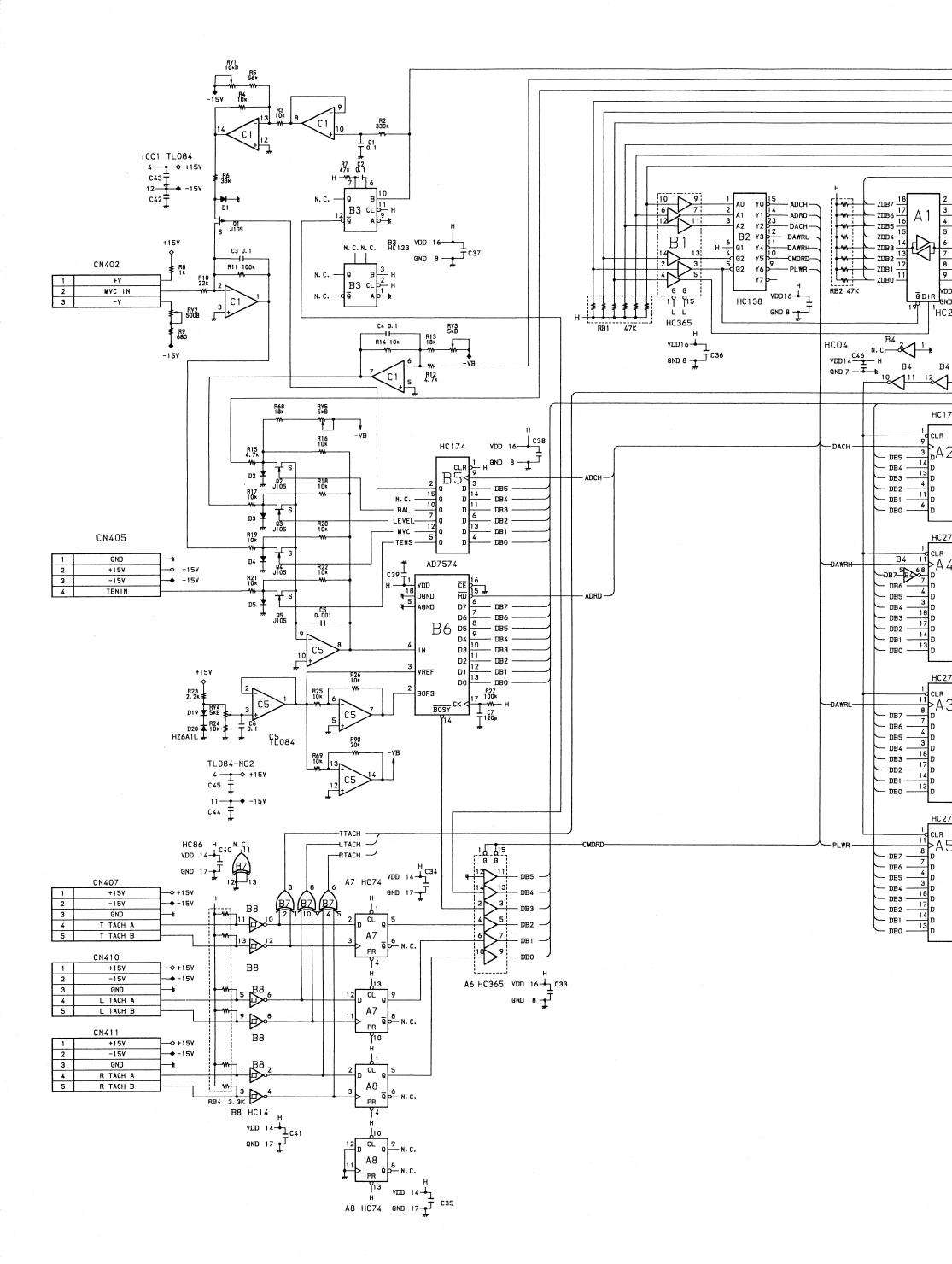


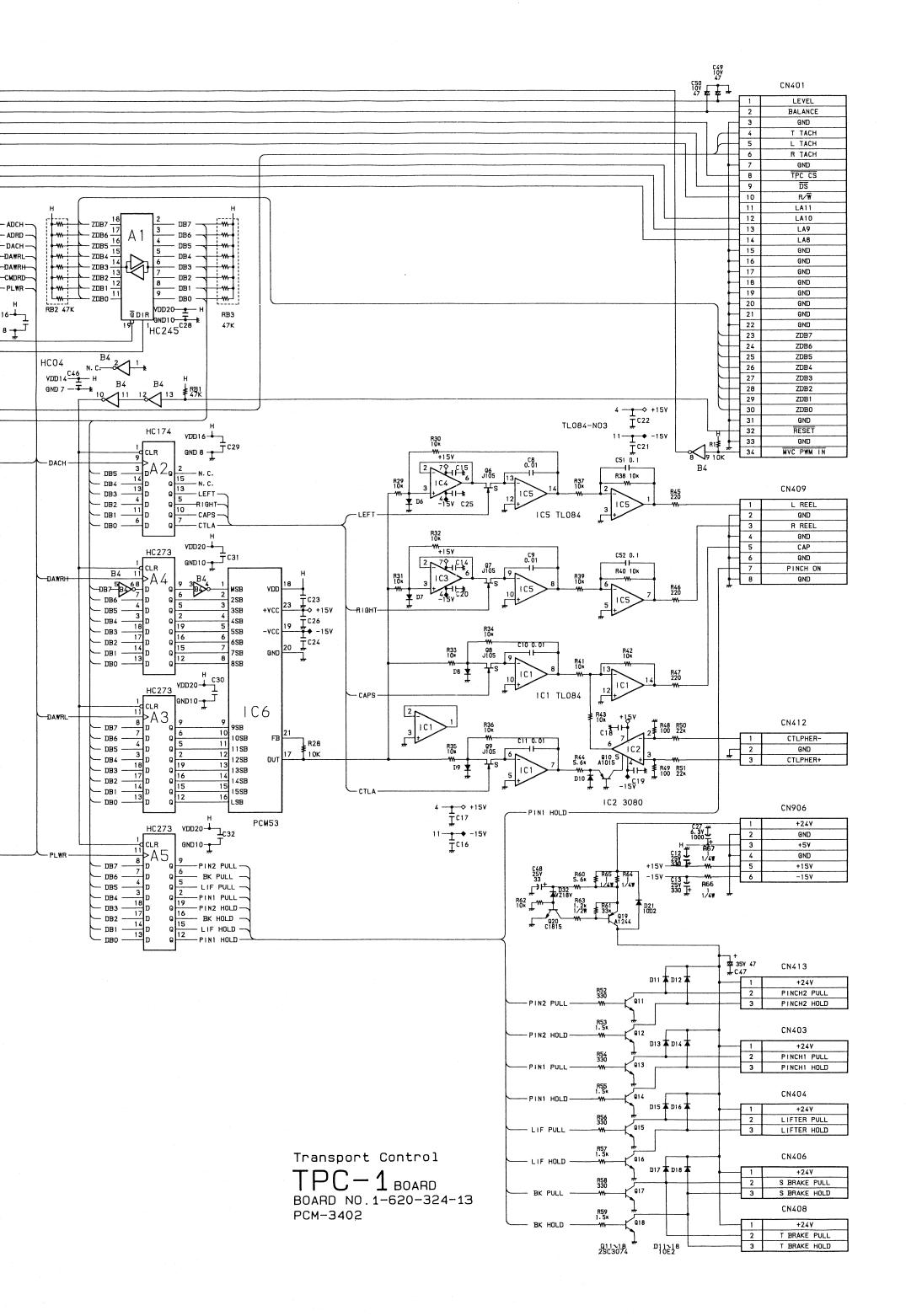


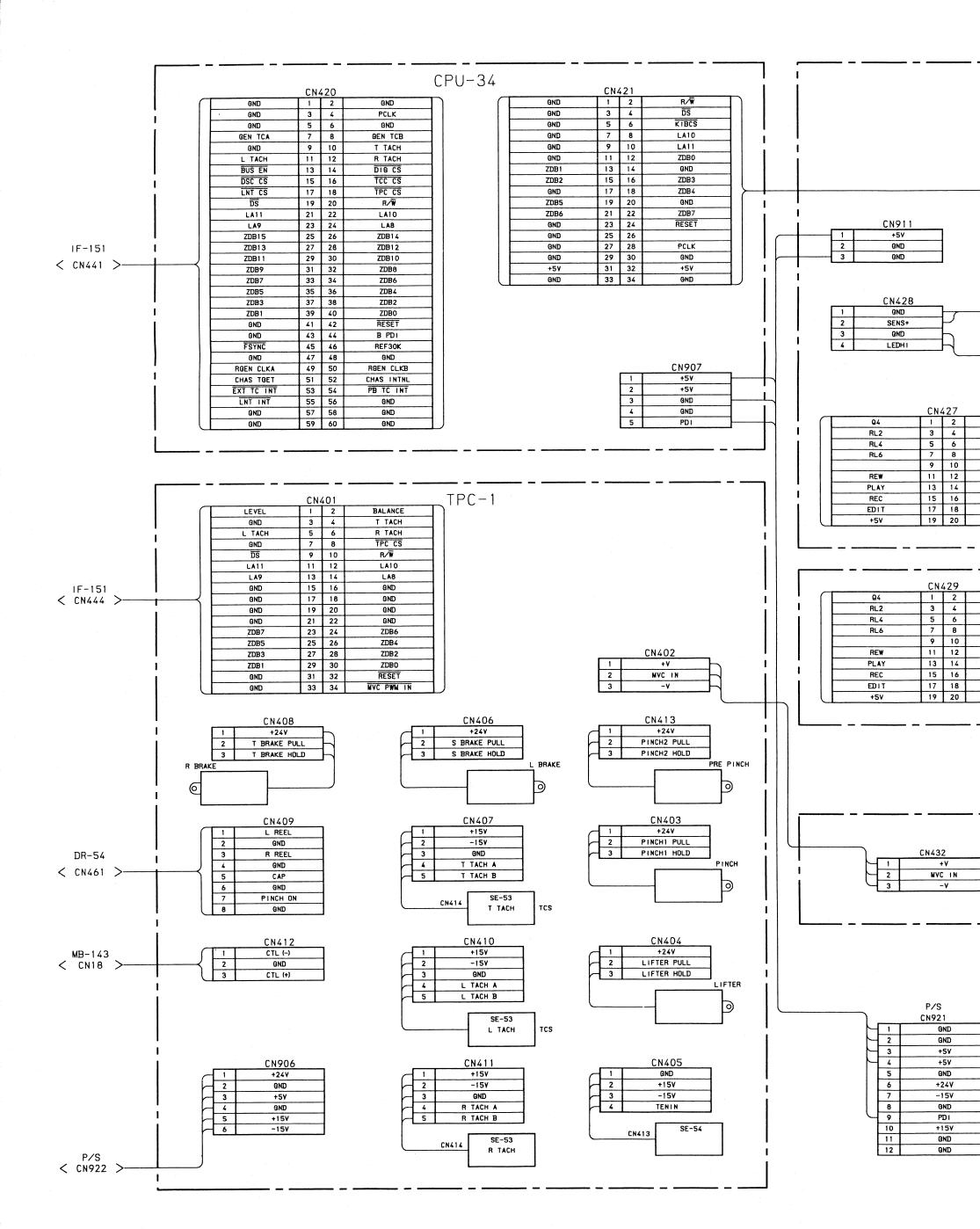


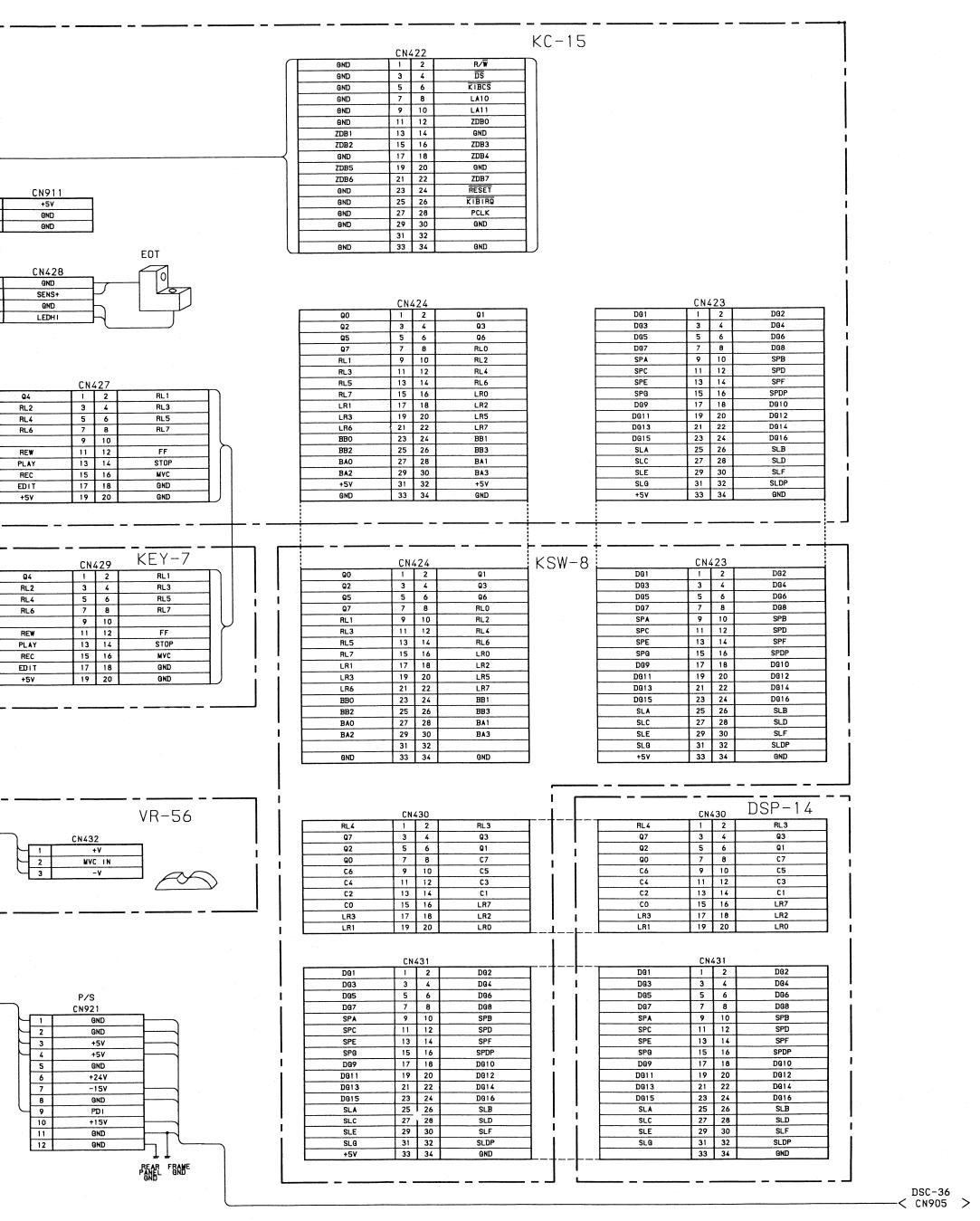


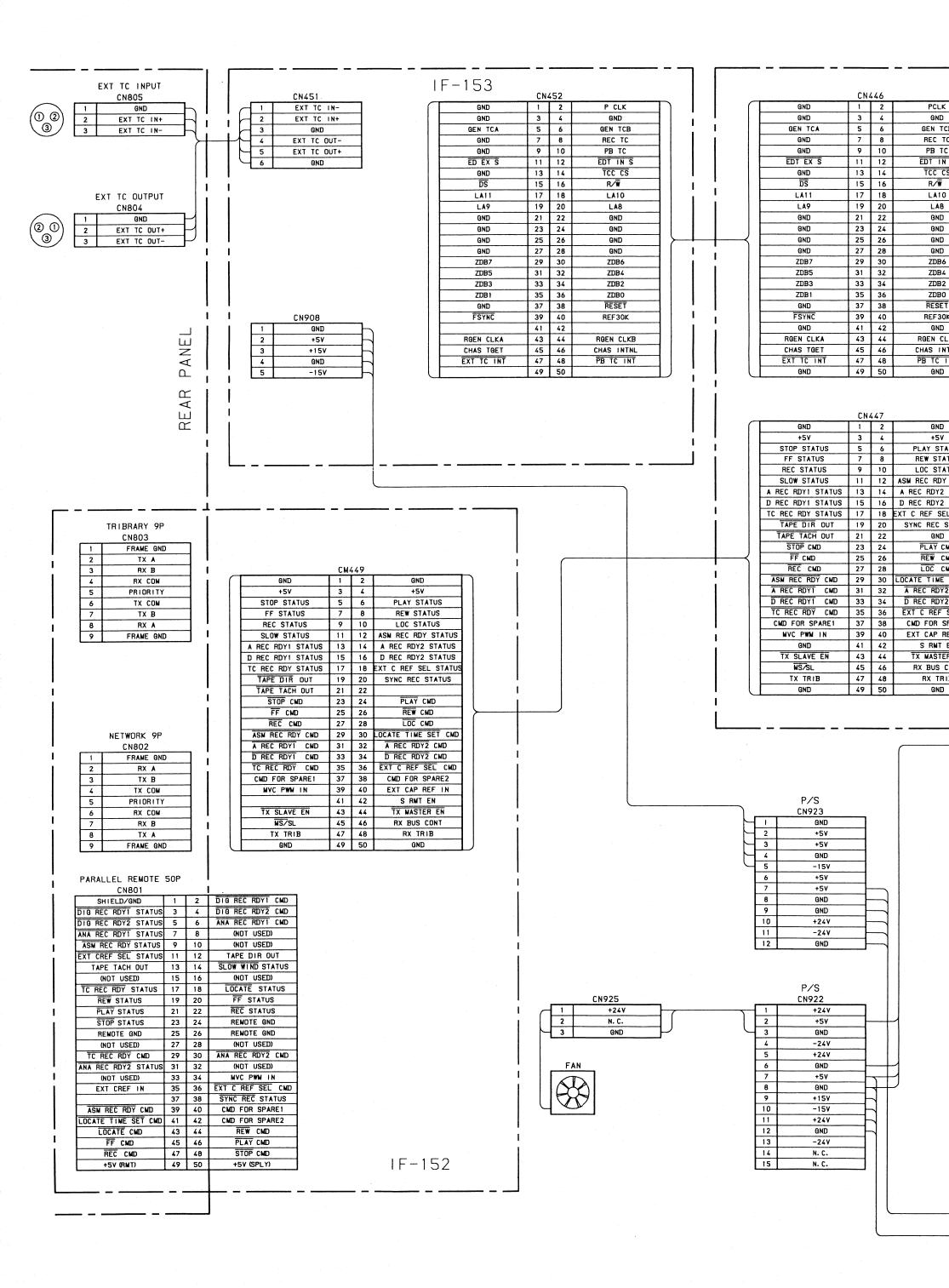


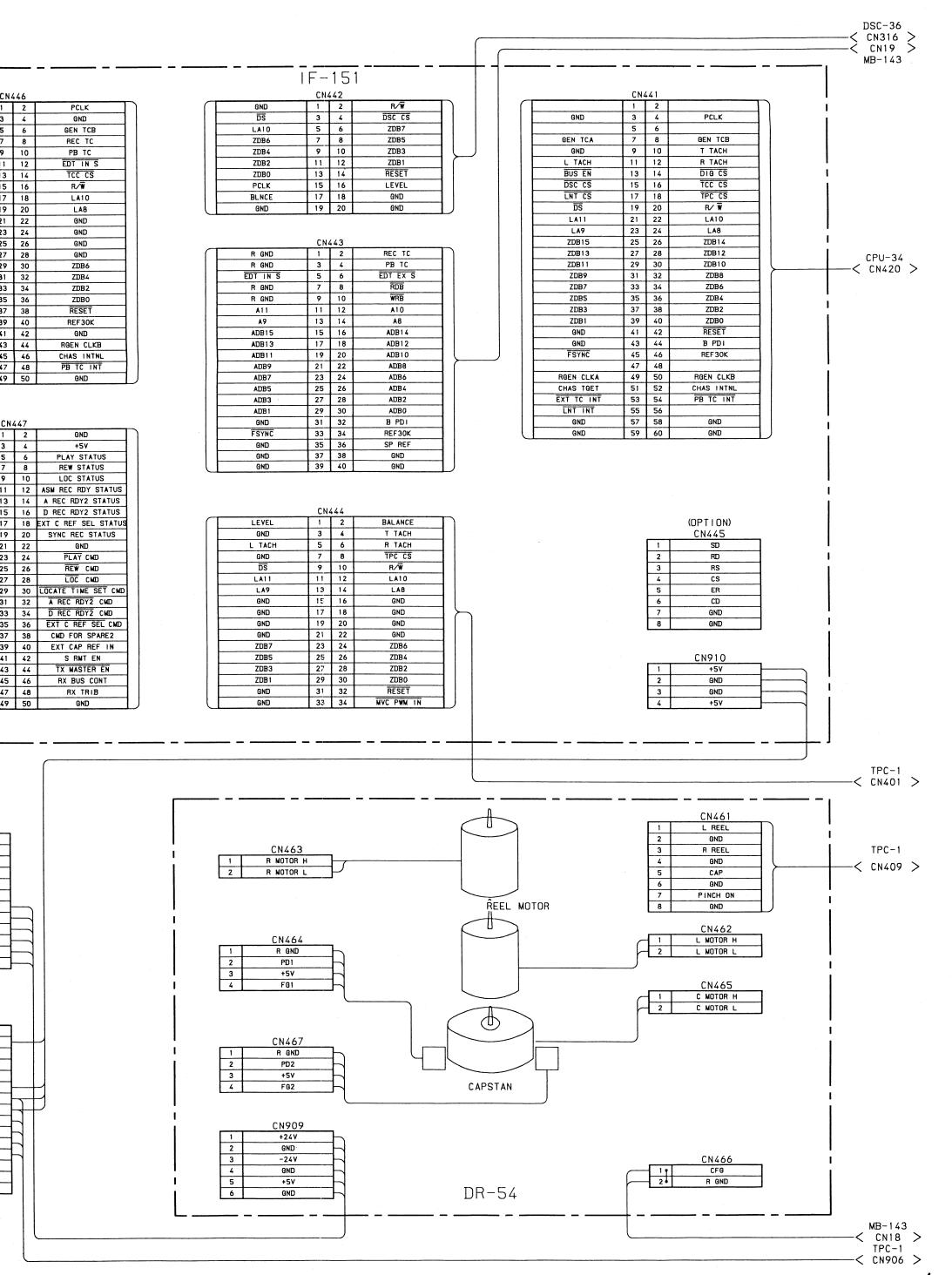


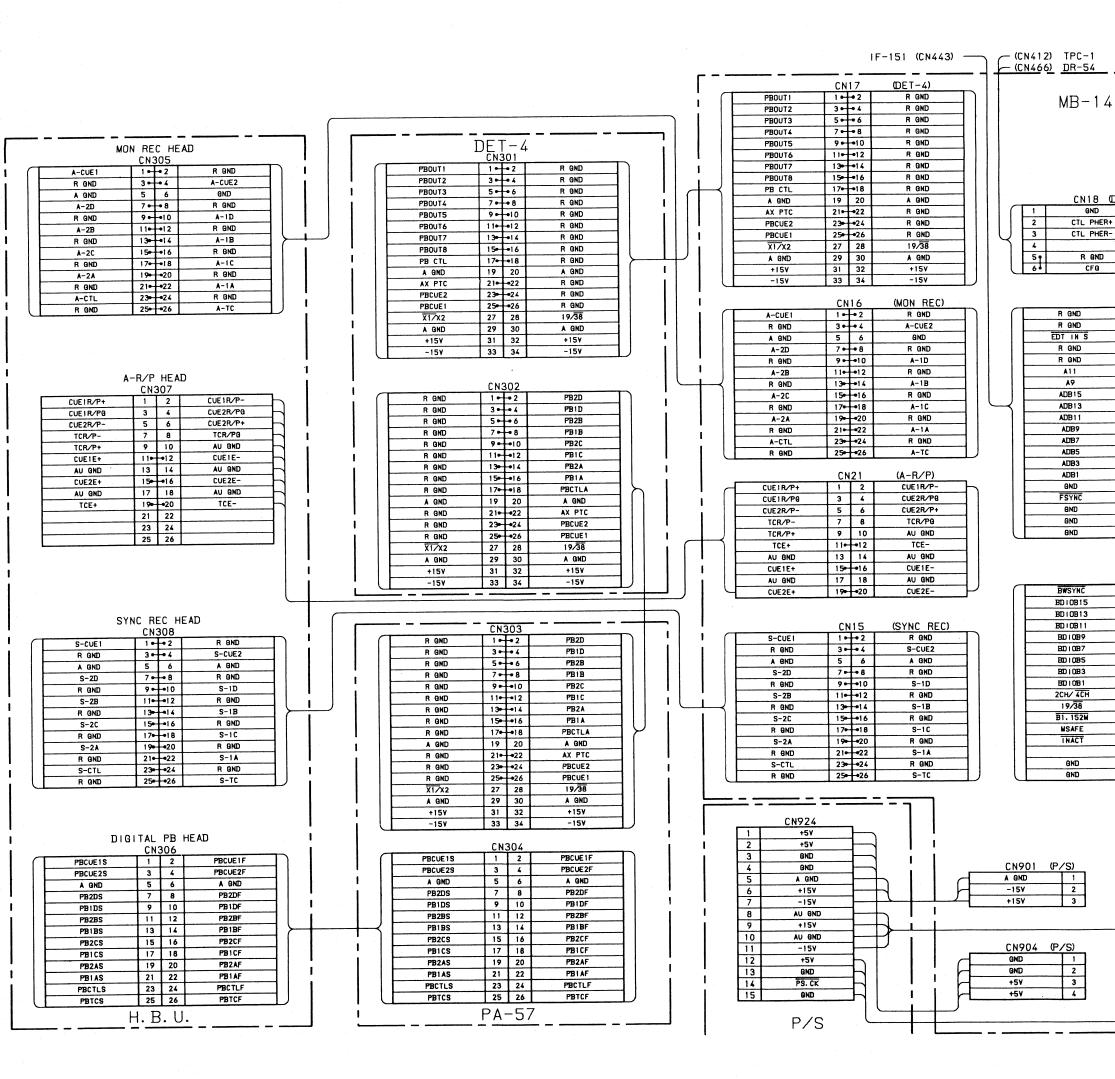


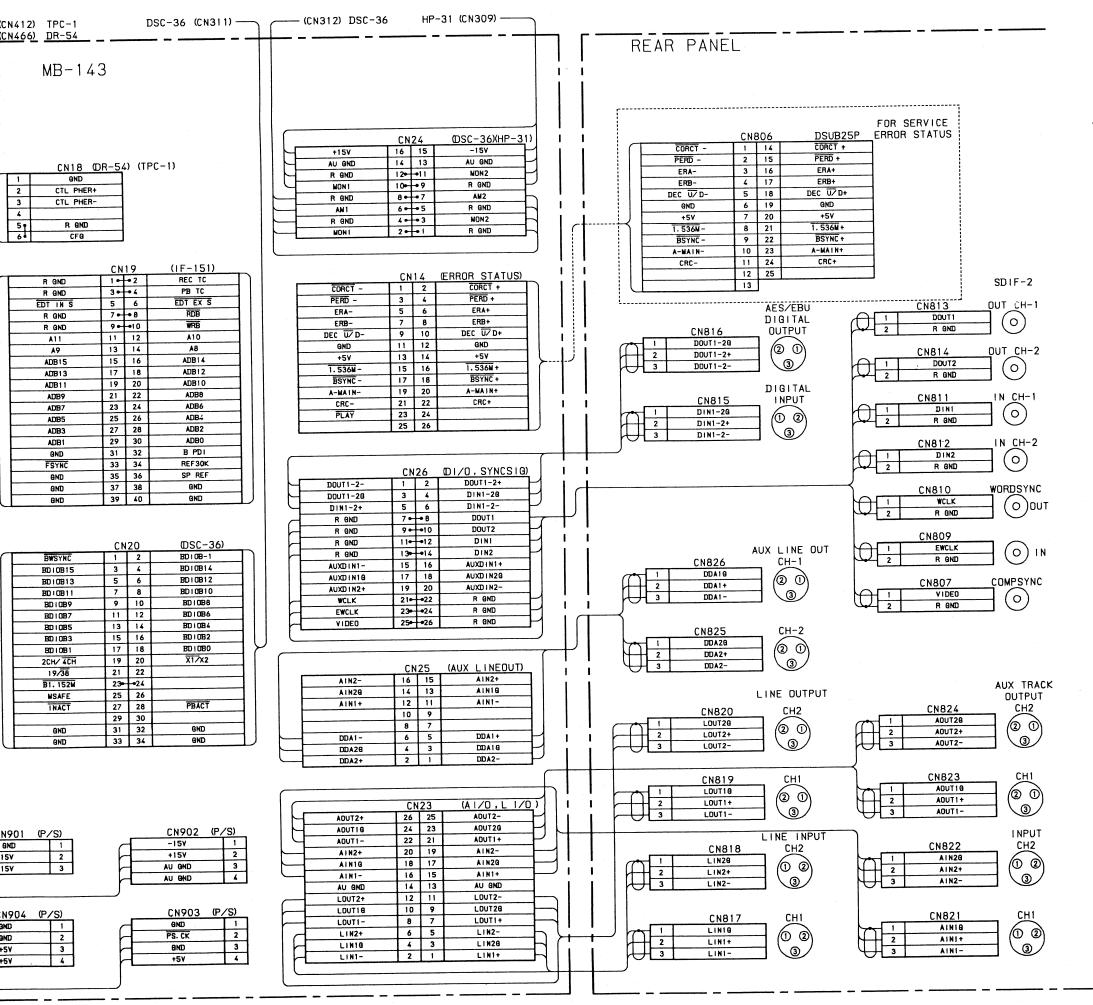






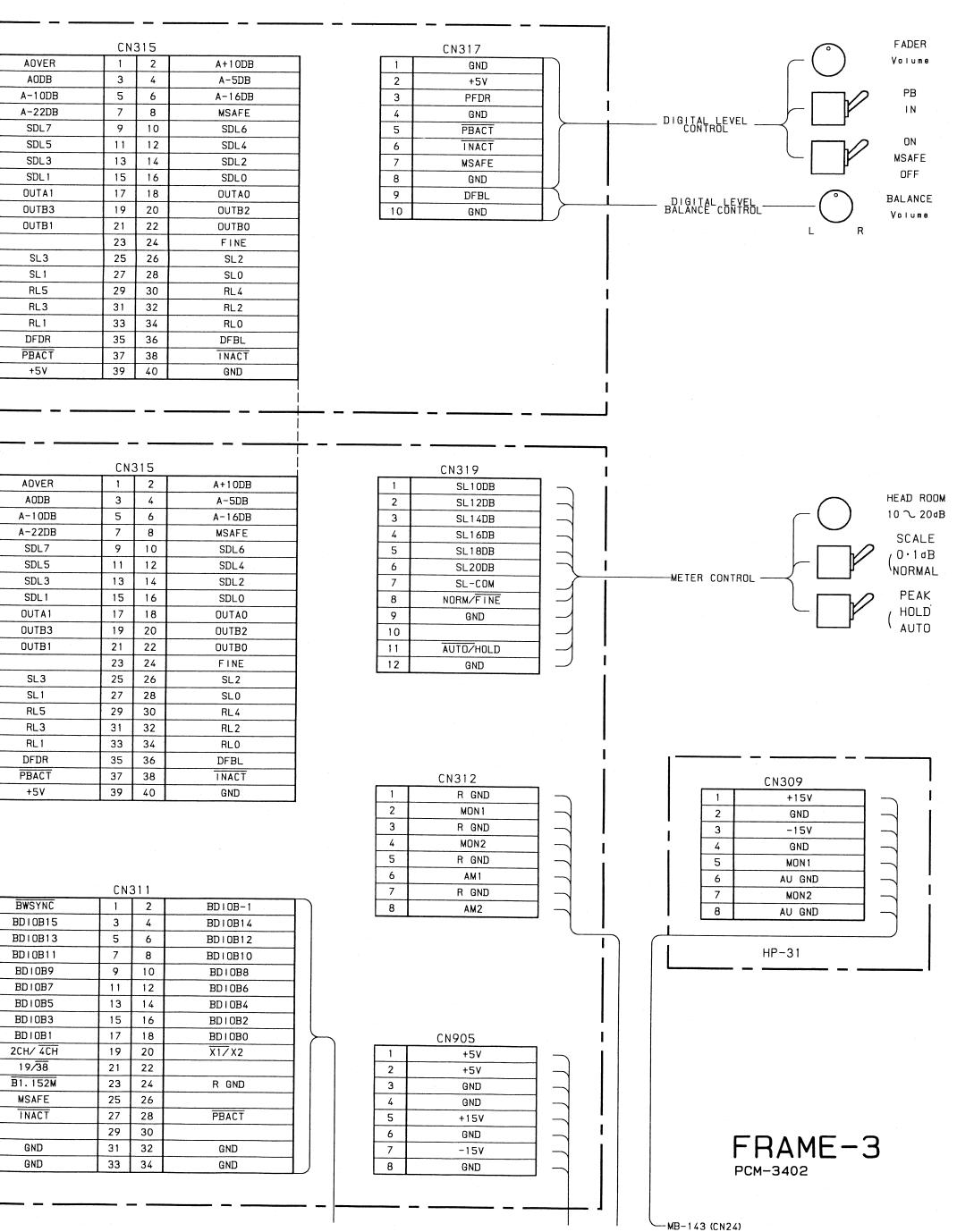






FRAME-2

•			
	CN313 1 R GND 2 MON1 3 R GND 4 MON2 5 +5V 6 +15V 7 -15V 8 GND	CN320 1	CN321 SP 2 GND 3 GND SND SND
F-151 (CN4/2)	CN316 GND	CN314 DSCH1	CN314 DSCH1 1 2 DSCH2 OVER 3 4 ODB -1DB 5 6 -2DB -3DB 7 8 -4DB -5DB 9 10 -6DB -7DB 11 12 -8DB -9DB 13 14 -10DB -12DB 15 16 -14DB -12DB 15 16 -14DB -14DB 17 18 -18DB -20DB 19 20 -22DB -24DB 21 22 -26DB -24DB 23 24 -30DB -32DB 25 26 -34DB -34DB 27 28 -38DB -40DB 29 30 -42DB -44DB 31 32 -48DB -4DB 31 32 -48DB -52DB 33 34 -56DB S-10DB 35 36 S-12DB S-14DB 37 38 S-16DB S-18DB 39 40 S-20DB
	BWSYNC 1	CN AOVER 1 AODB 3 A-10DB 5 A-22DB 7 SDL7 9 SDL5 11 SDL3 13 SDL1 15 OUTA1 17 OUTB3 19 OUTB1 21 23 SL3 25 SL1 27 RL5 29 RL3 31 RL1 33 DFDR 35 PBACT 37 +5V 39	C AOVER 1 AODB 3 A-10DB 5 A-22DB 7 SDL7 9 SDL5 11 SDL3 13 SDL1 15 OUTA1 17 OUTB3 19 OUTB1 21 23 SL3 25 SL1 27 RL5 29 RL3 31 RL1 33 DFDR 35 PBACT 37 +5V 39



MB-143 (CN20)

MB-143 (CN24)

SECTION D REPLACEABLE PARTS

D-1. PARTS ORDERING INFORMATION

Standardization of Parts
Repair parts supplied from Sony Parts Center may not be always identical with the part which actually in use due to "accommodating the improved parts and/or engineering changes" or "standardization of genuine parts".
This manual's exploded views and electrical parts list are indicating the parts numbers of the "standardized genuine parts at present".

Parts marked with S in the column of SP These parts are normally stocked as replaceable parts.

Parts marked with O in the column of SP Orders for these parts will be processed, but allow for additional delivery time.

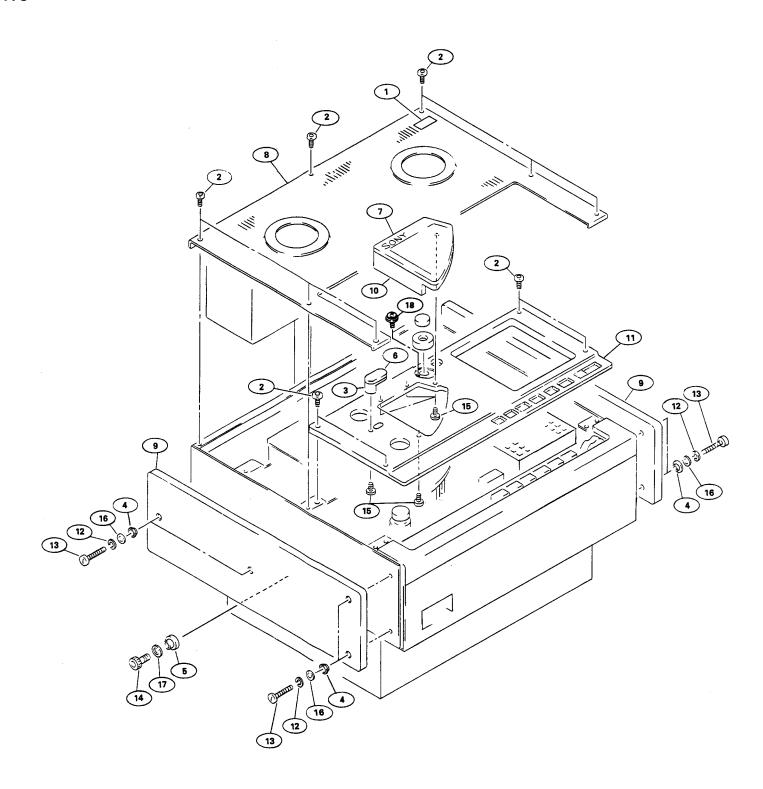
Parts without Part No.
These parts are not stocked because they are seldom required for routine service.

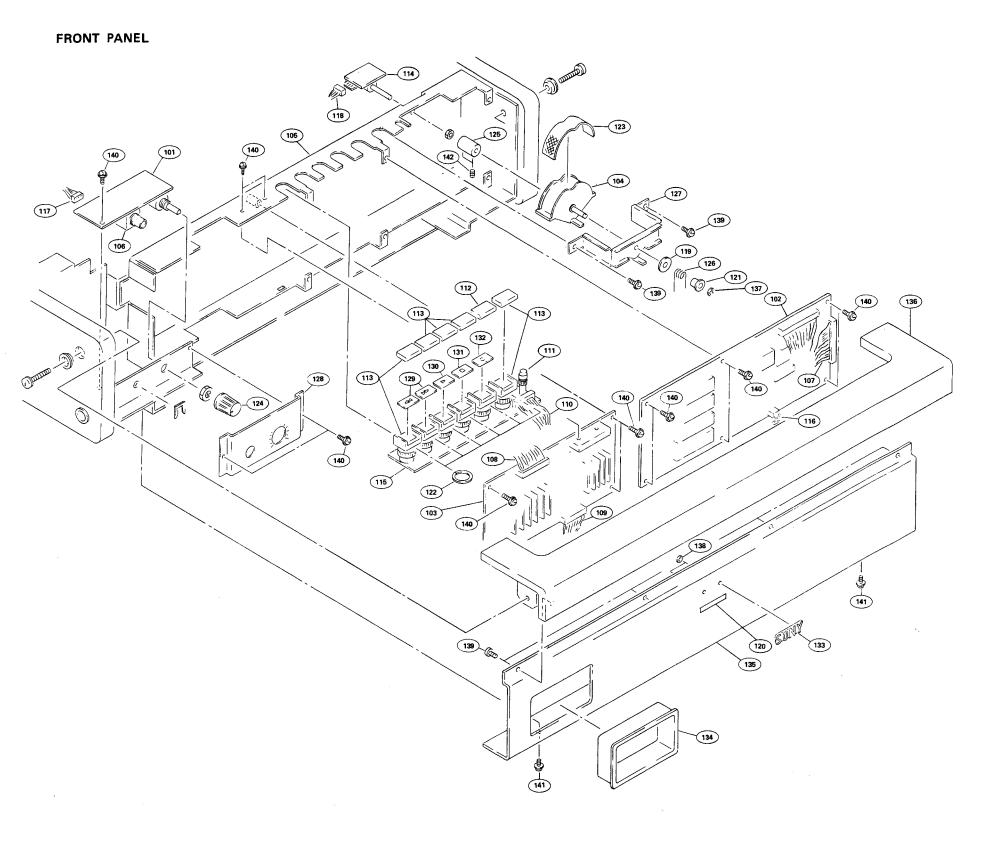
The components marked with \bigwedge are critical to safe operation. These components must be replaced with the same ones as described on the Parts List.

D-2. EXPLODED VIEWS AND PARTS LIST

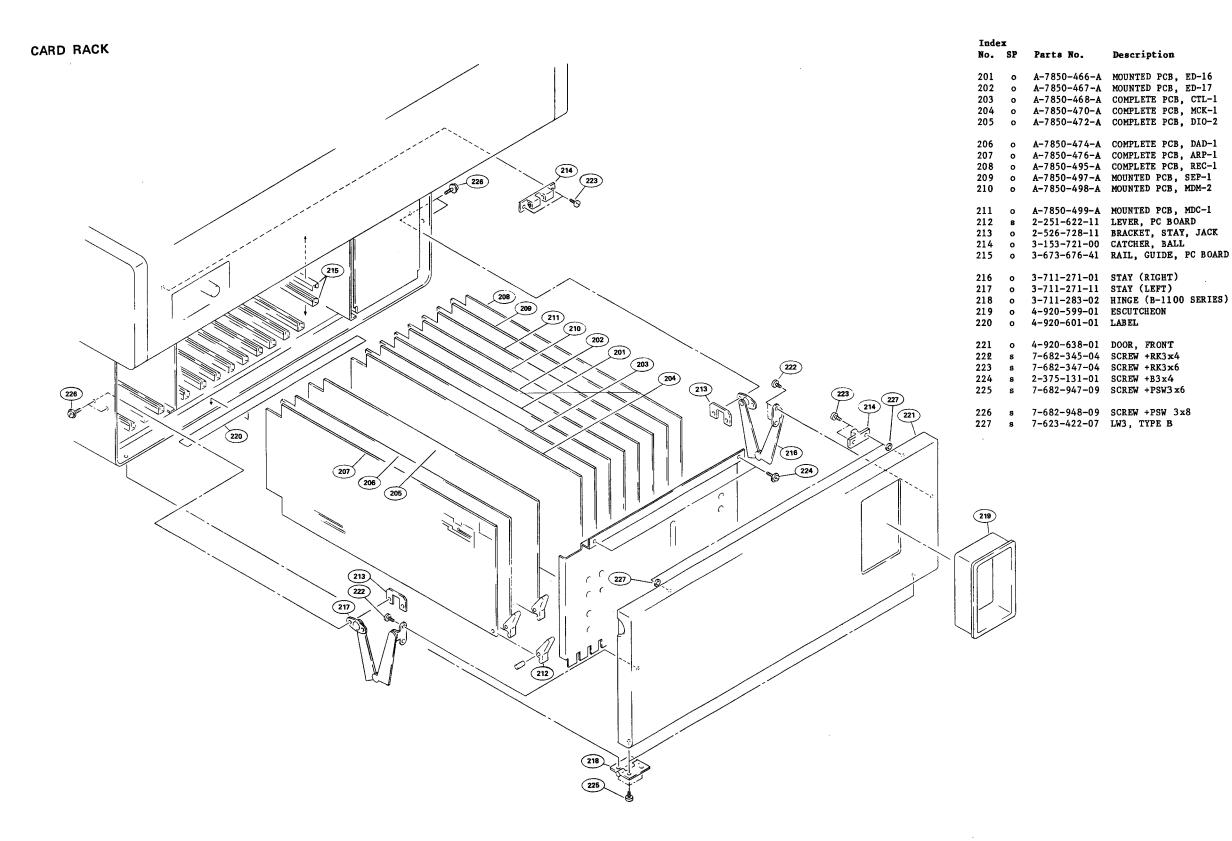
ORNAMENTAL PANELS

Index					
No.	SP	Parts No.	Description		
1	8	3-703-079-31	LABEL, CAUTION (BACK)		
		4-882-768-06	SCREW, BUTTON HEAD (M4x8)		
	0	4-920-526-01			
		4-920-527-01			
5		4-920-546-01			
6	•	4-920-570-01	CAP, ORNAMENTAL		
		4-920-600-01			
		4-920-624-01			
		4-920-627-01			
		4-920-655-01			
11		4-920-658-01	CHASSIS, ORNAMENTAL		
		7-623-210-22			
13		7-682-567-09	BOLT, HEXAGON 6x16		
15	8	7-685-196-21	SCREW +P3X10 11FE2 SL11		
16	8	7-688-004-12	W4, MIDDLE		
17	8	7-688-006-02	W6, SMALL		
18	8	7-682-948-01	SCREW +PSW3x8		

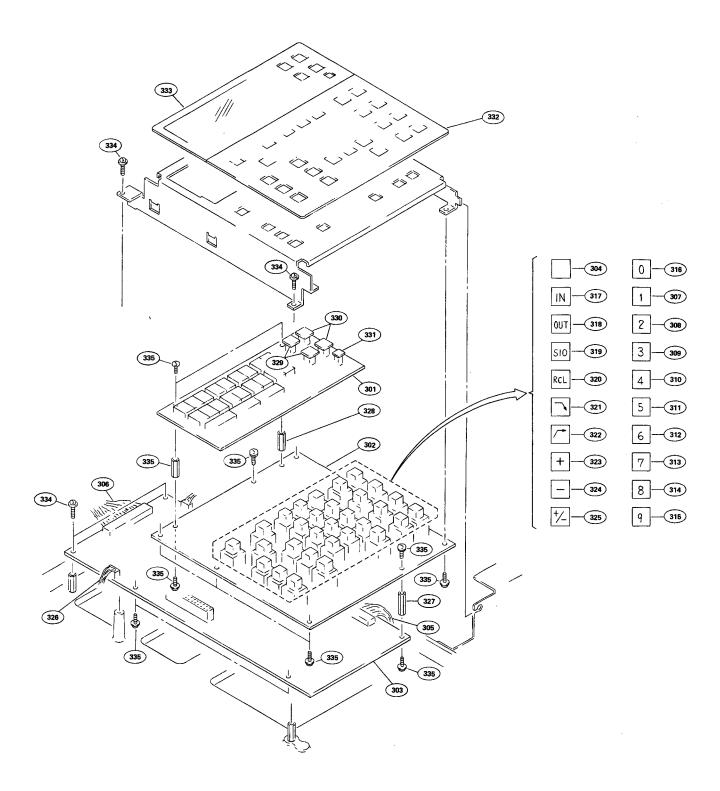




Index				
No.	SP	Parts No.	Description	
			-	
101		A-7850-488-A	MOUNTED PCB, HP-31	
102	0	A-7850-505-A	COMPLETE PCB, CPU-34	
103		A-7850-511-A	COMPLETE PCB, DET-4	
104	0	X-4920-516-1	DIAL ASSY	
105	0	X-4920-525-1	PLATE ASSY, FSW	
106	8	1-507-931-11	JACK, LARGE TYPE	
107	0	1-559-222-11	CABLE ASSY, CPU FLAT	
108	0	1-559-224-11	CABLE ASSY, DET FLAT	
109	0	1-559-225-11	CABLE ASSY, PRE FLAT	
110	0	1-559-231-11	CABLE ASSY, KEY FLAT	
111	8	1-571-126-11	SWITCH	
112		1-571-127-11	SWITCH	
113	8	1-571-127-21	SWITCH	
114	0	1-620-326-11		
115	0	1-620-327-11	PC BOARD, KEY-7	
			minung (wouther nouth)	
116	0		HARNESS (MONITOR POWER)	
117	0	1-938-902-11	HARNESS (METER.HEADPHONE)	
118		1-938-912-11	HARNESS (SHUTTLE)	
119	8	2-223-917-02	WASHER	
120	8	3-701-690-00	LABEL (MADE IN JAPAN)	
101	8	4-313-734-00	BUSHING TR, Y	
121 122	8	4-869-960-00	RETAINER, THRUST	
123	0	4-882-426-00	RUBBER, DIAL, SHUTTLE	
124	8	4-906-510-01	KNOB (LARGE), ROTARY	
125	0	4-920-516-01	TUBE, SHUTTLE	
127	٠	4 720 310 01	TODE, OHOTEBE	
126	0	4-920-517-01	SPRING	
127	0	4-920-518-01	RETAINER, SHUTTLE	
128		4-920-545-01	PLATE, ORNAMENTAL, HP	
129	ō	4-920-572-01	FILM, FFWD BUTTON	
130	0	4-920-573-01	FILM, PLAY BUTTON	
	_			
131	0	4-920-574-01	FILM, STOP BUTTON	
132	0	4-920-575-01	FILM, REC BUTTON	
133	8	4-920-581-01	EMBLEM, SONY	
134	0	4-920-599-11	ESCUTCHEON	
135	0	4-920-630-01	PLATE, FRONT	
136	0	4-920-631-01	PAD	
137	8	7-624-104-04	STOP RING 2, TYPE -E	
138	8	7-624-200-01	NUT, PUSH 1.5	
139	s	7-682-647-09	SCREW +PS3x6	
140	8	7-682-947-01	SCREW +PSW3 x6	
		4-847-802-00	SCREW 4x8, CASE STOPPER	
142	8	7-683-238-01	SET-SCT, HEX. 3×4	
			FLAT POINT	

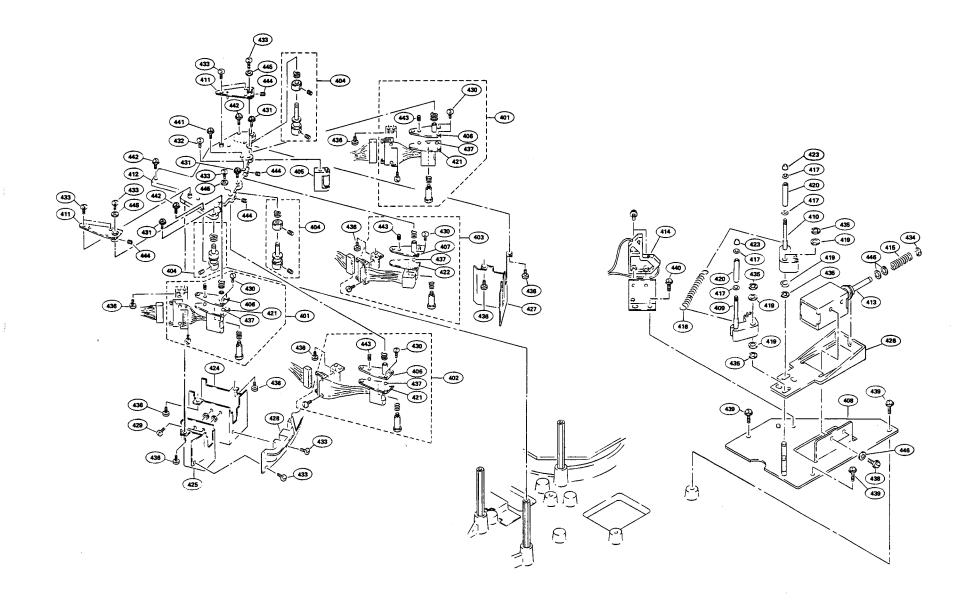


D-6



Inde	x		
No.	SP	Parts No.	Description
301	0	A-7850-502-A	MOUNTED PCB, DSP-14
302	0	A-7850-503-A	MOUNTED PCB, KSW-8
303	0	A-7850-504-A	MOUNTED PCB, KC-15
304	8	1-554-041-11	SWITCH, PUSH
305	0	1-559-231-11	CABLE ASSY, KEY FLAT
306	0	1-559-232-11	CABLE ASSY, KC FLAT
307	8	1-570-212-11	SWITCH, PUSH
308	8	1-570-212-21	SWITCH, PUSH
309	8	1-570-212-31	SWITCH, PUSH
310	8	1-570-212-41	SWITCH, PUSH
311	8	1-570-212-51	SWITCH, PUSH
312	8	1-570-212-61	SWITCH, PUSH
313	8	1-570-212-71	SWITCH, PUSH
314	8	1-570-212-81	SWITCH, PUSH
315	8	1-570-212-91	SWITCH, PUSH
316	8	1-570-214-21	SWITCH, PUSH
317	8	1-571-063-11	SWITCH, PUSH
318	8	1-571-063-21	SWITCH, PUSH
319	8	1-571-063-31	SWITCH, PUSH
320	8	1-571-063-41	SWITCH, PUSH
321	8	1-571-063-51	SWITCH, PUSH
322	8	1-571-063-61	SWITCH, PUSH
323	8	1-571-063-71	SWITCH, PUSH
324	8	1-571-063-81	SWITCH, PUSH
325	8	1-571-063-91	SWITCH, PUSH
326	0	1-938-899-12	HARNESS (EOT)
327	0	2-066-111-07	SUPPORT
328	0	2-280-622 - 31	SUPPORT (M3x12), HEXAGON
329	0	3-711-156-01	KEY CAP (R)
330	0	3-711-157-01	KEY CAP (ARROW)
331	0	4-920-509-01	CAP (GRAY PLAIN), KEY
332	0	4-920-596-01	SHEET (164), PANEL
333	0	4-920-652-01	GLASS, DSP
334	8	7-682-947-01	SCREW +PSW3x6
335	8	7-682-948-01	SCREW +PSW3x8

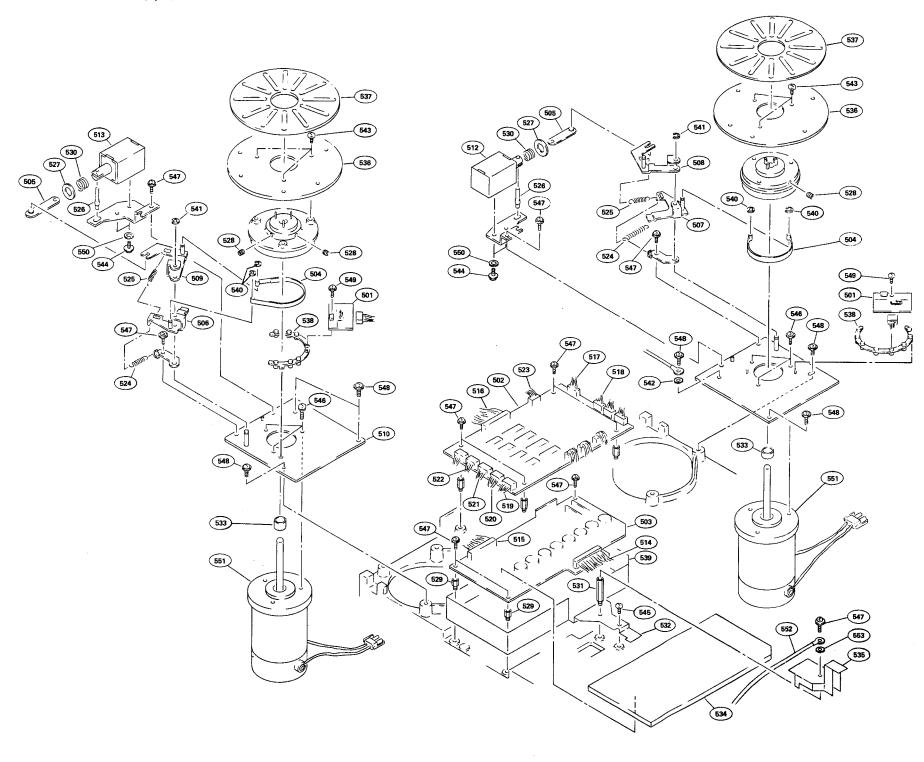
TAPE SHIFTER, HBU



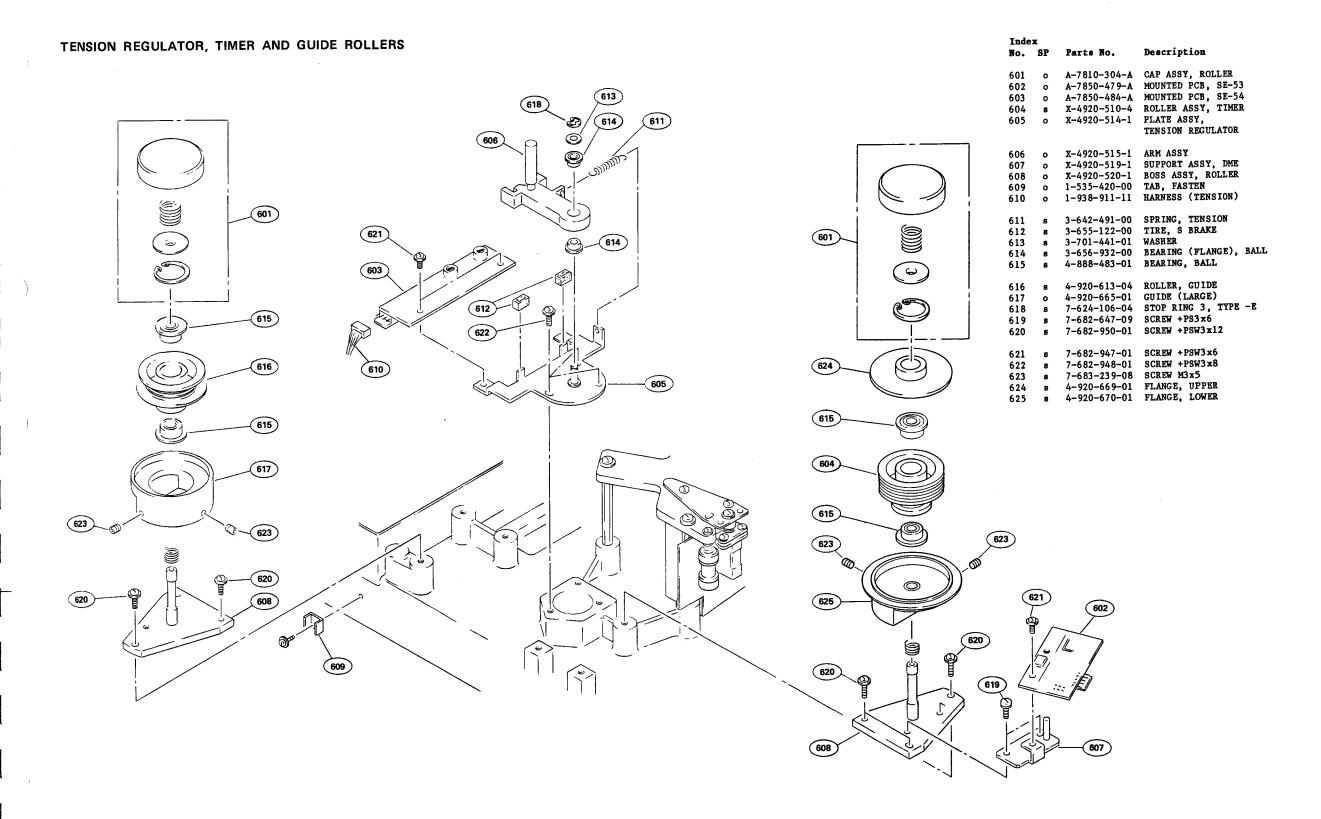
Inde	ex.		
No.	SP	Parts No.	Description
401	8	A-7810-308-A	HEAD ASSY, D REC
402	8	A-/810-309-A	HEAD ASSY, D PB HEAD ASSY, A GUIDE ASSY, TAPE FILTER ASSY, SCRAPE
403	8	A-7810-310-A	HEAD ASSY, A
404	8	A-7810-294-A	GUIDE ASSY, TAPE
405	8	A-7810-295-A	FILTER ASSY, SCRAPE
406	_	V4020E0E1	DIATE (HDDED) ACCV HEAD D
400		X-4920-303-1	PLATE (UPPER) AGGY WEAR A
407	0	X-4920-300-1	PLATE (UPPER) ASSI, READ, A
408	0	X-4920-50/-1	PLATE ASSI, SHIFTER
409	0	X-4920-506-1	PLATE (UPPER) ASSY, HEAD, D PLATE (UPPER) ASSY, HEAD, A PLATE ASSY, SHIFTER ARM (1) ASSY, SHIFTER ARM (2) ASSY, SHIFTER
410	0	X-4920-509-1	ARM (2) ASSI, SHIFIER
411	0	X-4920-518-1	PLATE (2) ASSY, HEAD, D
412	0	X-4920-522-1	PLATE ASSY, HBU
413	8	1-454-448-11	PLATE ASSY, HBU SOLENOID, SHIFTER PLUNGER HARNESS (EOT)
414	0	1-938-899-11	HARNESS (EOT)
	0	3-534-853-00	SPRING, COMPRESSION
		•	
416	8	3-509-128-00	SPRING, TENSION
417		3-012-230-00	KING (ILLIO)
418	8	3-701-439-21 3-701-441-11	WASHER
419	8	3-701-441-11	WASHER
420	0	4-888-484-01	RING, SHIFTER, TAPE
621	_	4-920-529-01	HEAD (LOWER), D
422			
423	•	4-920-531-01 4-920-540-01	CAP, SHIFTER
424		4-920-607-01	
425	0	4-920-608-01	SHIELD (LEFT), HEAD
426	0	4-920-609-01	LINK (1), SHIFTER
427	0	4-920-651-01	SHIELD (RIGHT), HEAD
428	0	4-920-659-01	PLATE, BLIND
429	8	7-621-259-25	SCREW, +P2.6x4
430	8	7-621-259-39	
431	s	7-621-759-35	SCREW, +PSW 2.6x5
432		7-621-775-10	SCREW, +B 2.6x4
433	8	7-621-775-40	SCREW, +B 2.6x8
434	8	7-624-105-04	STOP RING 2.3, TYPE -E
434		7-621-759-35 7-621-775-10 7-621-775-40 7-624-105-04 7-624-106-04	STOP RING 3, TYPE -E
433	•	7 024 100 04	5101 KINO 5, 1
436	8	7-628-254-20	
437	8	7-671-154-01	STENLESS BALL
438	8	7-682-646-09	
439	8	7-682-648-09	SCREW +PS3 x8
440	8	7-682-947-01	SCREW +PSW3x6
441	8	7-682-949-09	SCREW +PSW3×10
442	8	7-682-962-01	
443	8	7-683-173-31	SET-SCREW, SLOT 3x3
443	•	1-003-113-31	CUP POINT
444	8	7-683-238-01	
		. 005 250 01	FLAT POINT
445	8	7-688-002-11	

s 7-688-003-11 W3, MIDDLE

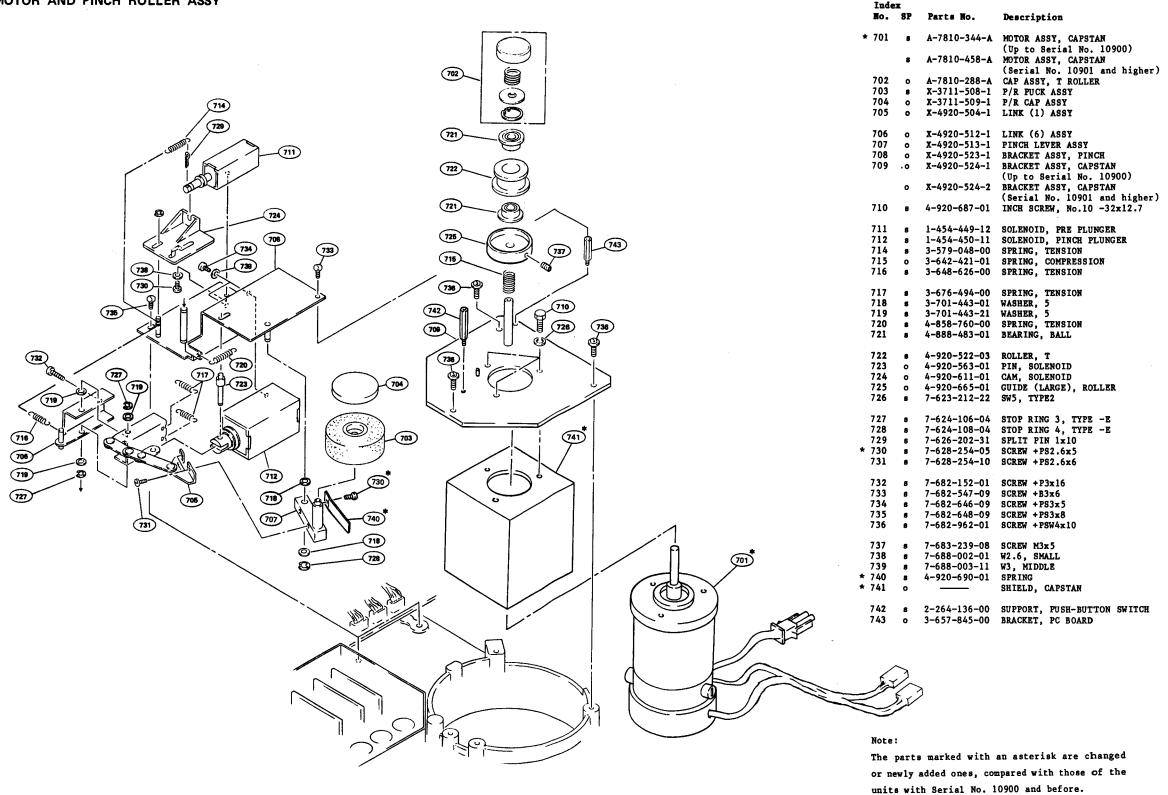
REEL MOTOR (S, T)



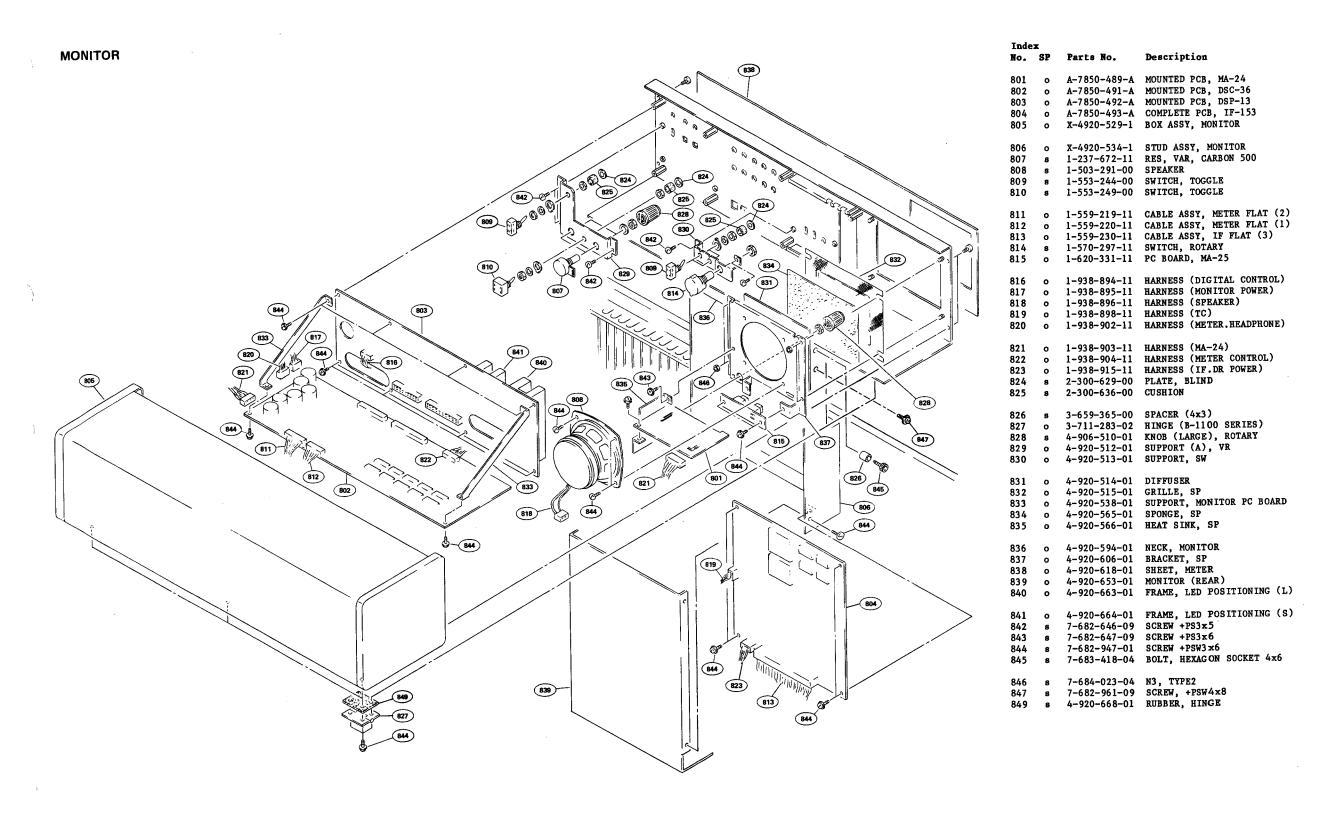
Inde	x		
No.	SP	Parts No.	Description
			-
		A-7850-479-A	
502	0	A-7850-482-A	COMPLETE PCB, TPC-1
503	0	A-7850-507-A X-3673-601-0	COMPLETE PCB, PA-57
505		X-3673-608-2	BAND ASSY, BRAKE JOINT ASSY
505	U	A-30/3-008-2	JUINI ASSI
506	0	X-4920-502-1	LINK (S1) ASSY, BRAKE
507	0	X-4920-503-1	LINK (T1) ASSY, BRAKE
508	0	X-4920-503-1 X-4920-511-1	LINK (T2) ASSY, BRAKE
509	0	X-4920-517-1 X-4920-530-1	LINK (S2) ASSY, BRAKE
510	0	X-4920-530-1	BRACKET (S) ASSY, MOTOR
511	0	X-4920-531-1	BRACKET (T) ASSY, MOTOR
512	8	1-454-426-61	SOLENOID, PLUNGER
513	8	1-454-426-61	SOLENOID, PLUNGER
514	0	1-559-221-11	CABLE ASSY, D.PB HEAD FLAT
515	0	X-4920-531-1 1-454-426-61 1-454-426-61 1-559-221-11 1-559-225-11	CABLE ASSY, PRE FLAT
516	•	1-559-226-11	CABLE ASSY, TPC FLAT
517	0	1-938-906-11	HARNESS (MOTOR CONTROL)
518	0	1-938-907-11	HARNESS (DR)
519	ō	1-938-908-11	HARNESS (DR) HARNESS (R.TACH)
520	0	1-938-909-11	HARNESS (L.TACH)
501			
521	0	1-938-910-11	HARNESS (T.TACH)
522	0	1-938-911-11	HARNESS (TENSION)
523	0	1-938-914-11	HARNESS (IF.TPC POWER) SPRING, TENSION
524 525	8	3-53/-210-00	SPRING, TENSION
323	•	3-578-390-00	SPRING, TENSION
526	0	3-673-810-00	PIN, SOLENOID
527	8	3-701-447-21	
528	8	3-701-509-00 3-880-616-00	SET SCREW, DOUBLE CUP 3x8
529	0	3-880-616-00	BOSS
530	8	4-836-109-00	SPRING, COMPRESSION
531	o	4-853-743-00	BOSS
532	0	4-920-537-01	SHIELD (LOWER), WIRE
533	0	4-920-537-01 4-920-567-01 4-920-586-01	TUBE, REEL
			LID, PRE
535	0	4-920-590-01	SHIELD (UPPER), WIRE
536	0	4-920-591-01	TABLE, REEL
537	g	4-920-614-01	SHEET, REEL
538		4-920-615-01	GUIDE, BAND, BREAK
539	0	4-920-617-01	BOX, PRE
540	8	7-624-105-04	
F / 1	_	7 (0/ 10/ 0/	OMAD DAVIG O MUDEL B
541 542		7-624-106-04	
543	8	7-627-423-07	LW 4, TYPE B
544	8 8	7-682-547-09 7-682-646-09	
545	8	7-682-647-09	
J-4J	-	. 002 04/-03	CONTRACT OF THE PROPERTY OF TH
546	8	7-682-662-09	
547	8		SCREW +PSW3x6
548	8		SCREW +PSW4x10
549	8	7-685-646-79	SCREW +BVTP 3x8 TYPE2 SLIT
550	8	7-688-003-11	W3, MIDDLE
551	8	8-835-251-01	MOTOR, DC TS3233 E11
552	0		HARNESS (HEAD SHEILD)
553	8	7-623-308-07	LW3 TYPE A



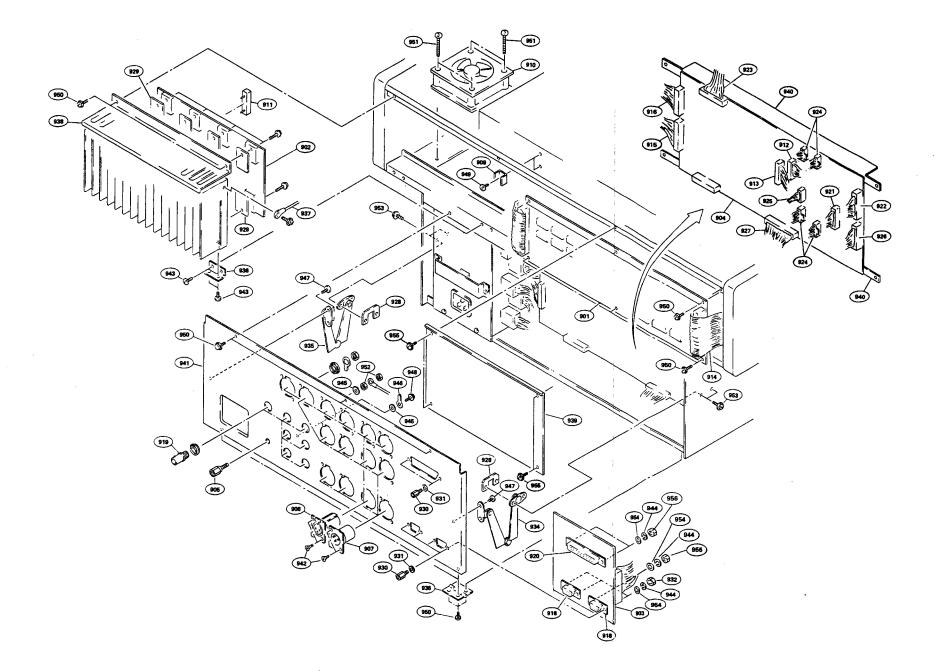
CAPSTAN MOTOR AND PINCH ROLLER ASSY



D-15



CONNECTOR PANEL



	Inde	X.		
	No.	SP	Parts No.	Description
				•
	901	0	A-7850-485-A	
	902	0	A-7850-486-A A-7850-500-A	COMPLETE PCB, DR-54
	903	0	A-7850-500-A	MOUNTED PCB, IF-152
	904	0	A-7850-501-A	MOUNTED PCB, MB-143
	905	0	X-4801-204-0	TERMINAL ASSY
	906	8	1-413-183-13	SWITCHING REGULATOR
	907	8		CONNECTOR (RECEPTACLE) 3P
	908	8	1-509-184-51	CONNECTOR (RECEPTACLE) 3P
	909	0	1-535-421-00	TAB, FASTEN
	910	8	1-541-409-31	MOTOR, FAN
	011		1-548-100-31	TTMED
	912	0		TIMER CABLE ASSY, METER FLAT (2)
	012	•	1-559-219-11	CABLE ASSY, IF FLAT (2)
	91.6	^	1-559-223-11 1-559-227-11	CABLE ASSY, IF FLAT (1)
	915	0	1-559-228-11	CABLE ASSY, SYNC REC FLAT
	723	·	1 337 220 11	OADED ABSI, BING KEG PARI
	916	0	1-559-229-11	CABLE ASSY, AD REC FLAT
			1-559-232-11	CABLE ASSY, KC FLAT
	918	8	1-561-655-00	CONNECTOR SOCKET,
				MINIATURE 9P
	919	8	1-561-781-21	CONNECTOR, BNC (RECEPTACLE)
	920	8	1-561-899-00	CONNECTOR SOCKET,
				MINIATURE 50P
	921	0	1-938-902-11	HARNESS (METER.HEADPHONE)
	922	0	1-938-905-11	HARNESS (ARP HEAD)
	973	^	1-938-907-11	HARNESS (DR)
	924	0	1-938-913-11 1-938-916-11	HARNESS (MOTHER POWER)
	925	0	1-938-916-11	HARNESS (DDA)
	926		1-938-917-11	HARNESS (LA I/O)
	927	0	1-938-918-11	HARNESS (DIGITAL I/O)
	928		2-526-728-11	BRACKET, STAY, JACK
	929		2-832-007-00	BUSHING (K), INSULATING
	930	0	3-668-459-11	SCREW, CONNECTOR
	931	8	3-683-454-01	WASHER, POLYETHYLENE
	932	0	3-686-054-02	STUD, SUPPORT, PC BOARD
	934	0	3-711-271-01	STAY (RIGHT)
	935	0	3-711-271-11	STAY (LEFT)
	936	0	3-711-283-02	HINGE (B-1100 SERIES)
	937	0	3-711-289-03	CABLE, RESTRAINT
	938	0	4-920-592-01	STOPPER, HEAT SINK
	939	0	4-920-598-01	PLATE, REAR
	940	0	4-920-626-01	SUPPORT (LOWER), CARD
				CONNECTOR
	0.41	_	4-020-620 O2	DANEI CONNECTOR
	941	0	4-920-639-03	PANEL, CONNECTOR
	942	8	7-621-259-49	SCREW, +P2.6x6
	943 944	8 8	7-621-773-95 7-623-207-22	SCREW, +B 2.6x6 SW 2.6, TYPE 2
	945	8	7-623-207-22	LW 3, TYPE B
	773		, -023- 4 22-01	wa J, III D
	946	8	7-623-508-01	LUG, 3
	947	8	7-682-345-04	SCREW +RK3×4
	948	8	7-682-646-09	SCREW +PS3x5
	949	8	7-682-661-09	SCREW +PS4x8
	950	8	7-682-947-01	SCREW +PSW3x6
	951	8		SCREW +PSW3x30
	952	8	7-684-023-04	N3, TYPE2
	953	8	7-682-147-01	SCREW +P 3x6 (S)
	954	8	7-688-002-01	W2.6, SMALL
	955	8	2-375-131-01	SCREW, +B3x4
D 20	956	8	7-622-207-05	N26, TYPE2
D-20				

D-3. ELECTRICAL PARTS LIST

STANDARDIZED PARTS LIST

Replacements for capacitors and resistors not given in each board parts lists are shown below. If a capacitor with the desired working voltage is not found, choose one of a higher working voltage.

5% 1/4W

52 1/4W

CERAMIC CAPACITOR (CARBON RESISTOR) SP Description SP Description Part No. Part No. RES, CARBON 1.8k 5% 1/4W CAP, CERAMIC 0.001 10% 50V 1-249-420-11 s 1-161-039-00 CAP, CERAMIC 0.0015 10% 50% 1-249-421-11 s RES, CARBON 2.2k 5% 1/4W 1-161-041-00 8 2.7k 5% 1/4W 0.0022 10% 50V 1-249-422-11 8 RES, CARBON 1-161-043-00 8 3.3k 5% 1/4W CARBON RES. CAP, CERAMIC 0.0033 10% 50V 1-249-423-11 8 1-161-045-00 1-249-424-11 s RES, CARBON 3.9k 5% 1/4W CAP, CERAMIC 0.0047 10% 50V 1-161-047-00 0.0068 10% 50V RES, CARBON 4.7k 5% 1/4W CAP, CERAMIC 1-249-425-11 s 1-161-049-00 CAP, CERAMIC 0.01 10% 50V 10% 50V 5.6k 5% 1/4W 1-249-426-11 8 RES, CARBON 1-161-051-00 6.8k 5% 1/4W RES, CARBON 1-249-427-11 s 1-161-053-00 CAP, CERAMIC 8.2k 5% 1/4W 0.022 10% 50V RES, CARB ON CAP, CERAMIC 1-249-428-11 1-161-055-00 8 8 10% 50V 10k CAP, CERAMIC 0.033 1-249-429-11 s RES, CARBON 1-161-057-00 8 1-161-021-11 CAP, CERAMIC 0.047 10% 25V 1-249-430-11 RES, CARBON 12k 8 10% 50V CAP, CERAMIC 0.047 1-249-431-11 в RES, CARBON 15k 1-161-059-00 8 10% 50V CAP, CERAMIC 0.068 1-249-432-11 RES, CARBON 18k 1-161-061-00 8 8 CAP, CERAMIC 10% 25V 1-249-433-11 RES, CARBON 22k 1-161-772-11 8 8 CAP, CERAMIC 0.1 10% 50V RES, **CARBON** 27k 1-161-063-00 1-249-434-11 8 33k 1-249-435-11 s RES, CARBON RES, CARBON 39k 1-249-436-11 8 1-249-437-11 RES, CARBON 8 **CARBON RESISTOR** 1-249-438-11 CARB ON 56k RES. 1-249-439-11 RES. CARBON 68k SP Description Part No. 1-249-440-11 8 RES. CARBON 82k 5% 1/4W 1-249-381-11 s RES, CARBON 1.0 5% 1/4W 100k 5% 1/4W RES, CARBON RES, CARBON 1.2 5% 1/4W RES, CARBON 1.5 5% 1/4W 1-249-441-11 8 1-249-382-11 8 1-215-471-00 RES, METAL 120k 1% 1/6W 1-249-383-11 s 1-215-473-00 150k 1% 1/6W RES. METAL CARBON 1.8 RES. 1-249-384-11 8 1-215-475-00 RES, METAL 180k 1% 1/6W CARBON 2.2 RES. 1-249-385-11 s RES. METAL 220k 1% 1/6W 1-215-477-00 5% 1/4W 1-249-386-11 CARBON 2.7 8 RES. 1-215-479-00 RES, METAL 270k 1% 1/6W 8 RES, CARBON 3.3 5% 1/4W 1-249-387-11 s 1-215-481-00 RES, METAL 330k 1% 1/6W 3.9 5% 1/4W RES, CARBON 1-249-388-11 RES, 1-215-483-00 METAL. 390k 1% 1/6W 1-249-389-11 CARBON 4.7 57 1/AW 1-215-485-00 8 RES, METAL 470k 1% 1/6W 1-249-390-11 RES. CARBON 5.6 5% 1/4W 1-215-487-00 s RES. METAL 560k 1% 1/6W 5% 1/4W RES, CARBON 1-249-391-11 s 1-215-489-00 s RES, METAL 680k 1% 1/6W 5% 1/4W 5% 1/4W 1-249-392-11 s RES. CARBON 8.2 820k 1% 1/6W 1-215-491-00 8 RES, METAL 1-249-393-11 RES, CARRON 10 1-215-493-00 1.0M 1% 1/6W RES. METAL 5% 1/4W -249-394-11 CARBON 12 RES. 5% 1/4W 1-249-395-11 RES, CARBON 5% 1/4W 1-249-396-11 8 RES, CARBON 18 RES, CARBON 5% 1/4W 1-249-397-11 22 RES, CARBON 5% 1/4W 1-249-398-11 я 33 5% 1/4W 1-249-399-11 RES, CARBON 1-249-400-11 CARBON 39 5% 1/4W RES,

5% 1/4W

5% 1/4W

5% 1/4W

12 1/6W

5% 1/4W

5% 1/4W 5% 1/4W

5% 1/4W

5% 1/4W

5% 1/4W

5% 1/4W

5% 1/4W

5% 1/6W

1.0k 5% 1/4W

1.2k 5% 1/4W 1.5k 5% 1/4W

CARBON

CARBON

CARBON

METAL

CARBON

CARB ON

CARBON

CARBON CARBON

CARBON

CARRON

CARBON

CARBON

CARBON

CARB ON

CARBON

CARBON

CARBON

CARBON

RES. CARBON

68

75

82

100

120

150

220

270

330

390

470

560

680

820

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1-249-401-11

1-249-403-11

1-215-394-00

1-249-404-11

1-249-405-11

1-249-406-11

1-249-407-11

1-249-409-11

1-249-410-11

1-249-411-11

1-249-412-11

1-249-413-11

1-249-414-11

1-249-415-11

1-249-416-11 1-249-417-11

1-249-418-11

1-249-419-11

1-249-408-11

1-249-402-11

Ref. No.	SP	Parts No.	Description		Ref. No.	SP	Parts No.	Descri	iption		
ARP-1 (Application)	cabl		rd No. up to 1-620-314-1	3	C108 C109 C110	8 8 8	1-101-888-00 1-162-179-11 1-162-179-11	CAP, C	CERAMIC 68P CERAMIC 0.1 CERAMIC 0.1	5%	50 V 50 V 50 V
oury.	•				C111	8	1-124-499-11		ELECT NONPOLAR		501
- (This	O B. 8 8 61		COMPLETE PCB, ARP-1 the following parts.)		C112 to 11	5	1-102-109-00		1.0	20%	
_	8	2-251-622-11	LEVER, PC BOARD		CO 11	,					
-	8	1-561-832-00 4-920-505-01	SOCKET, SHORT SHIELD, ARB		C116 C117	8 8	1-162-179-11 1-124-278-00	-	CERAMIC 0.1 ELECT NONPOLAR 10	20%	50 V 35 V
C1	8	1-123-330-00	CAP, ELECT 22 20%	25V	C118	8	1-162-179-11	CAP,	CERAMIC 0.1		50 V
C2	8	1-124-477-11		257	C120	8	1-124-499-11	CAP, I	ELECT NONPOLAR		
C3	6	1-123-382-00 1-123-382-00	CAP, ELECT 3.3 20% 1 CAP, ELECT 3.3 20% 1		C121	8	1-102-114-00	CAP	1 CERAMIC 470P		50 V
C4 C5	8	1-123-875-91		50 V	C122	8	1-124-499-11	•			JU V
C6	8	1-123-875-91	•	50♥				•	1		50 V
C7	8	1-162-179-11	•	50 V	C123	8	1-136-155-00	CAP,			50 V
C8	8	1-162-179-11		50 V 50 V	C124	8	1-124-286-00	CAP,	ELECT NONPOLAR		16 17
C9 C10	8 8	1-124-038-00 1-136-156-00		50 V	C125	8	1-101-888-00	CAP	33 CERAMIC 68P		16 V 50 V
010	٠	1-150 150 00	J		C126	8	1-136-158-00	CAP,			50 V
C11	8	1-136-153-00	CAP, METAL 0.01 5%	50 V		-					
C12	8	1-124-282-00	CAP, ELECT NONPOLAR	^	C127	8	1-162-179-11		CERAMIC 0.1		50 V
		1 160 170 11		25V 50V	C128	8	1-162-179-11		CERAMIC 0.1	100	50 V
Cl3 tol6	8	1-162-179-11	CAP, CERAMIC 0.1	JU V	C129 C130	8	1-102-114-00 1-124-499-11		CERAMIC 470P ELECT NONPOLAF		50 V
1010					0150	•	1 124 477 11	Uni,	l l		50 V
C17	8	1-124-282-00	CAP, ELECT NONPOLAR 22 20%	25V	C131	8	1-161-048-00	CAP,	CERAMIC 5600P		
C18	8	1-102-109-00	CAP, CERAMIC 180P 10%	507	C132	8	1-162-179-11	-	CERAMIC 0.1		50 V
to 21					C133	8	1-162-179-11		CERAMIC 0.1		50 V
	_	1_124_292_00	CAP, ELECT NONPOLAR		C135 C136	8	1-162-179-11 1-124-278-00		CERAMIC 0.1	,	50 V
C22	8	1-124-282-00	22 20%	25V		8		•	ELECT NONPOLAR		35V
C23	8	1-102-109-00	CAP, CERAMIC 180P 10%	50 V	C137	8	1-162-179-11	CAP,	CERAMIC 0.1		50 V
C24	8	1-162-179-11	CAP, CERAMIC 0.1	50 V 50 V	C138	8	1-162-170-11	CAD	CERAMIC 0.1		50 V
C25 C26	8 8	1-162-179-11 1-124-282-00	CAP, CERAMIC 0.1 CAP, ELECT NONPOLAR	JU V	C139	8	1-162-179-11 1-101-888-00		CERAMIC 68P	52	50 V
020	•	1 124 202 00		25₹	C140	8	1-102-963-00		CERAMIC 33P		50 V
C28	8	1-124-284-00	CAP, ELECT NONPOLAR		C141	8	1-136-173-00	CAP,			50 V
			10 20%	16♥	C142	8	1-136-173-00	CAP,	METAL 0.47	5%	50 V
C29	8	1-162-179-11	CAP, CERAMIC 0.1	50 V	C143	8	1-124-477-11	CAP,	ELECT 47	20%	25V
C30	8	1-102-106-00	CAP, CERAMIC 100P 10%	50 V	to 14	6					
C31	8	1-102-106-00	CAP, CERAMIC 100P 10%	50V							
C32		1-162-179-11	CAP, CERAMIC 0.1	50V	C147	8	1-124-038-00	CAP,			50 V
to 39	,				C148 C149	8	1-102-963-00 1-124-477-11		CERAMIC 33P		50 V
C40	8	1-104-077-00	CAP, STYROL 0.001 5%	50 V	C150	8 8	1-162-179-11	CAP, I	ELECT 47 CERAMIC 0.1	20%	25V 50V
C41	8	1-103-732-00	CAP, STYROL 0.002 5%	50 V	C151	8	1-106-178-00	CAP,		5 % 1	
C42	8	1-104-077-00	CAP, STYROL 0.001 5%	50 V							
C43	8	1-162-179-11	CAP, CERAMIC 0.1	50V	C152	8	1-102-111-00		CERAMIC 270P		
C44	8	1-162-179-11	CAP, CERAMIC 0.1	50₹	C153	8	1-124-477-11			20%	25V
CAS	_	1_122_222_00	CAP, ELECT 100 20%	25V	C154	8	1-162-179-11		CERAMIC 0.1 ELECT NONPOLAR	,	50 V
C45 C46	8 8	1-123-333-00 1-123-333-00	CAP, ELECT 100 20%	25V	C155	8	1-124-282-00	CAP,	ELECT NUNPOLAR 22		25V
C4:0	8	1-123-333-00		25V	C156	8	1-102-074-00	CAP.	CERAMIC 0.001		
C48	8	1-162-179-11	CAP, CERAMIC 0.1	50 V				•			
to 51					C201	8	1-124-284-00	CAP,	ELECT NONPOLAR 10		16 V
C52	8	1-123-330-00	CAP, ELECT 22 20%	25V	C202	8	1-124-284-00	CAP,			
C53	8	1-123-330-00	CAP, ELECT 22 20%	25V					10	20%	16 V
C101	8	1-124-284-00	CAP, ELECT NONPOLAR	1/ 17	C203	8	1-136-153-00	CAP, I			50 V
0100		1 104 004 00	CAR FIECT NONDOLAR	10 A	C204	8	1-136-153-00	CAP, I			50♥
CIO2	8	1-124-284-00	CAP, ELECT NONPOLAR 10 20%	16 V	C205	8	1-124-284-00	UAP, I	ELECT NONPOLAR 10	20%	16 V
C103	_	1-136-153-00	CAP, METAL 0.01 5%	50 V	C206	8	1-162-179-11	CAP 4	CERAMIC 0.1		50 V
C103	8 8	1-136-153-00		50 V	C207	8	1-162-179-11		CERAMIC 0.1		50 V
C105	8	1-124-284-00	CAP, ELECT NONPOLAR		C208	6	1-101-888-00		CERAMIC 68P	5%	507
	•		10 20%		C209	8	1-162-179-11		CERAMIC 0.1		50 V
C106	8	1-162-179-11		50 V	C210	8	1-162-179-11	CAP, C	CERAMIC 0.1		50 V
C107	8	1-162-179-11	CAP, CERAMIC 0.1	50♥	C211	8	1-124-499-11	CAP, I			
									1.0	20%	50♥

							Ref.					
Ref.		D V -	D	intion			No.	QЪ	Parts No.	Description		
No.	SP	Parts No.	Desci	ription			MO.	JI.	raits no.	Description		
				ann 11170 1000	100	E011	C404	8	1-162-179-11	CAP, CERAMIC	0 1	50 V
C212	8	1-102-109-00			10%		C405	8	1-101-888-00	CAP, CERAMIC		50V
C213	8	1-102-109-00		CERAMIC 180P	10%		C406	8	1-162-179-11	CAP, CERAMIC		50 V
C214	8	1-102-109-00			10%		C407	8	1-124-477-11	CAP, ELECT		257
C215	6	1-102-109-00			10%		C408	8	1-124-477-11	CAP, ELECT		257
C216	8	1-162-179-11		CERAMIC 0.1	ъ	50V	C400	•	1-124-4//-11	oni, niiioi	47 ZUK	
C217	8	1-124-278-00	CAP,	ELECT NONPOLA		250	C501	8	1-162-179-11	CAP, CERAMIC	0.1	50 V
				10	20%	304	C502		1-162-179-11	CAP, CERAMIC		50 V
4.12				077 LV70 0 1		50V	C504	8	1-162-179-11	CAP, CERAMIC		50 V
C218	8	1-162-179-11		CERAMIC 0.1	n	30V		8	1-162-179-11	CAP, CERAMIC		50 V
C220	8	1-124-499-11	CAP,	ELECT NONPOLA		EAT	C507	8	1-162-179-11	CAP, CERAMIC		50 V
				1.0	20%		C508	8		CAP, ELECT N		50 1
C221	8	1-102-114-00			10%	JUV	C509	8	1-124-278-00	OAF, BEECI N		35V
C222	8	1-124-499-11	CAP,	ELECT NONPOLA		EOV					10 20%	. 331
			0 A D	1.0	20%		C510		1-124-477-11	CAP, ELECT	47 20%	25V
C223	8	1-136-155-00	CAP,	METAL 0.015	2%	204	C510	8				25V
				mr nom Novidor A			C511	8	1-124-477-11	CAP, ELECT CAP, METAL	0.47 57	
C224	8	1-124-286-00	CAP,	ELECT NONPOLA		1617	C514	8	1-136-173-00		0.47 5%	
				33		16V	C515	8	1-136-173-00	CAP, METAL		25V
C225	8	1-101-888-00		CERAMIC 68P		50V	C516	8	1-124-477-11	CAP, ELECT	4/ 20/	, 2JY
C226	8	1-136-158-00		METAL 0.027	36	50V	0517	_	1-124-477-11	CAP, ELECT	47 202	25V
C227	8	1-162-179-11		CERAMIC 0.1		50V	C517	8	1-124-477-11	CAP, ELECT		257
C228	8	1-162-179-11	CAP,	CERAMIC 0.1		50V	C518	8		CAP, ELECT		25V
				CTT 13/70 / 70T	109	EATT	C519	8	1-124-477-11	CAP, CERAMIC		50V
C229	8	1-102-114-00		CERAMIC 470P		30 V	C601	8	1-162-179-11	CAP, CERAMIC		50 V
C230	8	1-124-499-11	CAP,	ELECT NONPOLA		EAW	C602	8	1-162-179-11	CAP, CERAMIC		50 V
				1.0		50V	C604	8	1-162-179-11	CAF, CERAFIIC	0.1	501
C231	8	1-161-048-00			10%		0607	_	1.16217011	CAD CEDANTO	0.1	50 V
C232	8	1-162-179-11		CERAMIC 0.1		50V	C607	8	1-162-179-11	CAP, CERAMIC		50 V
C233	8	1-162-179-11	CAP,	CERAMIC 0.1		50V	C608	8	1-162-179-11	CAP, ELECT N		501
				GERANTO O 1		50V	C609	8	1-124-278-00	CAF, ELECT N		35V
C235	8	1-162-179-11		CERAMIC 0.1	ъ	JUV	0610	_	1 -124 - 477 - 11	CAP, ELECT		25V
C236	8	1-124-278-00	CAP,	ELECT NONPOLA		2577	C610	8	1-124-477-11	-	47 207	
				10	20%	35V	C611	8	1-124-477-11	CAP, ELECT	0.47 5	
C237	8	1-162-179-11		CERAMIC 0.1		50V	C614	8	1-136-173-00	CAP, METAL	0.47 37	. 504
C238	8	1-162-179-11		CERAMIC 0.1	c 97	50V	0615	_	1 126 172 00	CAD METAT	0 47 59	5017
C23 9	8	1-101-888-00	CAP,	CERAMIC 68P	26	50 V	C615	8	1-136-173-00	CAP, METAL	0.47 57	
				CDD 4447G 02D	r w	E 0.43	C616	8	1-124-477-11	CAP, ELECT		25V
C240	8	1-102-963-00		CERAMIC 33P		50V	C617	8	1-124-477-11	CAP, ELECT		25V
C241	8	1-136-173-00		METAL 0.47		50V	C618	8	1-124-477-11	CAP, ELECT		ሬ 25V ሬ 25V
C242	8	1-136-173-00		METAL 0.47		50V	C619	8	1-124-477-11	CAP, ELECT	4/ 20/	6 ZJV
C243	8	1-124-477-11		ELECT 47		25V						
C244	8	1-124-477-11	CAP,	ELECT 47	20%	25 V	n:		8-719-911-19	NTONE 199110		
			04.0	ELECT 47	207	25 V	D1	. 8	0-/19-911-19	DIODE 133113		
C245	8	1-124-477-11				25V	to 13		8-719-910-75	DIODE HZ7B2L		
C246	8	1-124-477-11				50V	D14	8	8-719-910-75	DIODE HZ7B2L		
C247	8	1-124-038-00		CERAMIC 33P		50V	D15	8	8-719-924-06	DIODE ERC24-		
C248	8	1-102-963-00				25V	D101	8	8-719-911-19	DIODE 188119		
C249	8	1-124-477-11	UAP,	ELECT 47	204	251	to 13		0-719-311-13	DIODE IDDII)		
		1 160 170 11	CAD	CERAMIC O 1		50V	LU 1.	10				
C250	8	1-162-179-11		CERAMIC 0.1 FILM 1800F	59		D201	8	8-719-911-19	DIODE 188119	ı	
C251	8	1-106-178-00		CERAMIC 270P			to 2		0 /1, /11 1,	22020 200227		
C252	8	1-102-111-00		ELECT 47		25V	LU 2.	10				
C253	8	1-124-477-11		CERAMIC 0.1	20%	50V	D301	8	8-719-911-19	DIODE 188119		
C254	8	1-162-179-11	CAP,	ELECT NONPOLA	ND.	301	to 30		0 /1/ /11 1/	21022 10011,		
C255	8	1-124-282-00	CAP,	22	207	257	10 31	00				
				22	20%	231	D401		8-719-911-19	DIODE 188119	ı	
		1 100 074 00	CAD	CERAMIC 0.001	107	50V	to 40		0 /17 /11 17	D1000 100117		
C256	8	1-102-074-00		CERAMIC 0.001	. 10%	50V	LU 40					
C301	8	1-162-179-11		CERAMIC 0.1		50V	D501		8-719-911-19	DIODE 199110		
C302	8	1-162-179-11	-	CERAMIC 0.1		50V	to 50		011331113	2102H 100117		
C3O3	8	1-162-179-11	CAP,	CERAMIC 0.1		50V	D601		8-719-921-19	DTODE 199110	TG	
c304	8	1-162-179-11	UAP,	ORRAFILO U.1		J	to 60		U-117-741-17	21000 100117		
		1 101,000 00	CAP	CERAMIC 68P	59	50V	EU 01	.,				
C305	8	1-101-888-00			16	50V						
c306	8	1-162-179-11	GAP,	CERAMIC 0.1		201						
		1 10/ /77 **	CAR	ELECT 47	204	25V						
C307	8	1-124-477-11		ELECT 47 ELECT 47		25V						
c308	8	1-124-477-11		CERAMIC 0.1	4U%	50V						
C401	8	1-162-179-11	CAP,	CERAMIC 0.1		50V						
C402	8	1-162-179-11		CERAMIC 0.1		50V						
C403	8	1-162-179-11	UAF,	U.U OIMAGO								

Ref.				Ref.			
No.	SP	Parts No.	Description	No.	SP	Parts No.	Description
101	_	8-759-202-74	IC TC74HC04P	Q111	8	8-729-281-53	TRANSTOTOR 2001015 OF
IC2	8	8-759-202-74	IC TC74HC04P	Q112	8	8-729-306-92	TRANSISTOR 2SC1815-GR TRANSISTOR 2SD669A
1C3	8	8-759-974-07	IC SN7407N	Q113	8	8-729-306-92	TRANSISTOR 2SD669A
1C4	8	8-759-974-06	IC SN7406N	Q114	8	8-729-304-92	TRANSISTOR 288649
IC5	8	8-759-202-21	IC TC74HC32P	Q201	8	8-729-217-03	TRANSISTOR 25K170
IC6	8	8-759-202-11	IC TC74HC00P	Q202	8	8-729-200-95	TRANSISTOR 28J74
107	8	8-759-202-74	IC TC74HC04P	Q203	8	8-729-307-58 8-729-307-28	TRANSISTOR 2SC1775A
1C8 1C9	8	8-759-990-04 8-759-910-83	IC TL074CN IC TL072ACP	Q204 Q205	8 8	8-729-307-58	TRANSISTOR 2SA872A-E TRANSISTOR 2SC1775A
IC10	8	8-759-700-04	IC NJM2043D-D	Q206	8	8-729-307-28	TRANSISTOR 25A872A-E
1010	٠	0 737 700 01	20 1101224 155 5	\	-	0 , 2 , 00 , 20	111111111111111111111111111111111111111
IC11	8	8-759-910-83	IC TLO72ACP	Q207	8	8-729-306-92	TRANSISTOR 2SD669A
IC12	8	8-759-990-04	IC TLO74CN	Q208	8	8-729-304-92	TRANSISTOR 288649
IC13	8	8-759-937-39	IC DG211CJ	Q209	8	8-729-306-92	TRANSISTOR 2SD669A
IC14	8	8-759-700-04	IC NJM2043D-D	Q210	8	8-729-304-92	TRANSISTOR 288649
IC101	_	8-759-900-72	IC NE5532P	Q211	8	8-729-281-53	TRANSISTOR 2SC1815-GR
IC101	8 8	8-759-745-63	IC NJM4560D-X	Q212	8	8-729-306-92	TRANSISTOR 2SD669A
IC103	8	8-759-700-04	IC NJM2043D-D	Q213	8	8-729-306-92	TRANSISTOR 2SD669A
IC104	8	8-759-700-04	IC NJM2043D-D	Q214	8	8-729-304-92	TRANSISTOR 2SB649
IC105	8	8-759-745-63	IC NJM4560D-X	Q301	8	8-729-200-95	TRANSISTOR 2SJ74
				Q302	8	8-729-217-03	TRANSISTOR 2SK170
IC106	8	8-759-745-63	IC NJM4560D-X				
IC107	8	8-759-905-42	IC NE5534P	Q401	8	8-729-200-95	TRANSISTOR 2SJ74
IC201	8	8-759-900-72	IC NE5532P IC NJM4560D-X	Q402	8	8-729-217-03	TRANSISTOR 25K170
IC202 IC203	8	8-759-745-63 8-759-700-04	IC NJM2043D-D	Q501 Q502	8 8	8-729-200-95 8-729-217-03	TRANSISTOR 2SJ74 TRANSISTOR 2SK170
10203	8	6-739-700-04	10 N3N2043D D	Q502 Q503	8	8-729-307-58	TRANSISTOR 2SC1775A
IC204	8	8-759-700-04	IC NJM2043D-D	4	-		2001, 31
IC205	8	8-759-745-63	IC NJM4560D-X	Q504	8	8-729-307-28	TRANSISTOR 2SA872A-E
IC206	8	8-759-745-63	IC NJM4560D-X	Q505	8	8-729-307-58	TRANSISTOR 2SC1775A
IC207	8	8-759-905-42	IC NE5534P	Q506	8	8-729-307-28	TRANSISTOR 2SA872A-E
IC301	8	8-759-900-72	IC NE5532P	Q507	8	8-729-307-58	TRANSISTOR 2SC1775A
T0202		0.750.000-72	TC NESS22D	Q508	8	8-729-307-28	TRANSISTOR 2SA872A-E
IC302 IC303	8 8	8-759-900-72 8-759-900-72	IC NE5532P IC NE5532P	Q509	8	8-729-307-58	TRANSISTOR 2SC1775A
IC401	8	8-759-900-72	IC NE5532P	Q510	8	8-729-307-28	TRANSISTOR 2SA872A-E
IC402	8	8-759-900-72	IC NE5532P	Q511	8	8-729-306-92	TRANSISTOR 2SD669A
IC403	8	8-759-900-72	IC NE5532P	Q512	8	8-729-304-92	TRANSISTOR 2SB649
				Q513	8	8-729-306-92	TRANSISTOR 2SD669A
IC501	8	8-759-900-72					
IC502	8	8-759-900-72	IC NE5532P	Q514	8	8-729-304-92	TRANSISTOR 2SB649
IC503	8	8-759-910-77	IC LF353N/GLEA312	Q601	8	8-729-200-95	TRANSISTOR 2SJ74
IC601 IC602	8	8-759-900-72 8-759-900-72	IC NE5532P IC NE5532P	Q602	8	8-729-217-03	TRANSISTOR 2SK170
IC602	8	8-759-910-77	IC LF353N/GLEA312	Q603 Q604	8 8	8-729-307-58 8-729-307-28	TRANSISTOR 2SC1775A TRANSISTOR 2SA872A-E
10003	٠	0 733 320 17		QUU-	•	0 727 307 20	TAMES TO THE PARTY OF THE PARTY
Ll	8	1-409-309-00	COIL, SN 72	Q605	8	8-729-307-58	TRANSISTOR 2SC1775A
L2	8	1-409-309-00	COIL, SN 72	Q606	8	8-729-307-28	TRANSISTOR 2SA872A-E
				Q607	8	8-729-307-58	TRANSISTOR 2SC1775A
LVI01	8	1-407-293-00	VARIABLE INDUCTOR 1.5M	Q608	8	8-729-307-28	TRANSISTOR 2SA872A-E
LV201	8	1-407-293-00	VARIABLE INDUCTOR 1.5M	Q609	8	8-729-307-58	TRANSISTOR 2SC1775A
Q1	8	8-729-122-02	TRANSISTOR 2SA1220A-P	Q610	8	8-729-307-28	TRANSISTOR 2SA872A-E
Q2	8	8-729-300-72	TRANSISTOR 2SB647A	Q611	8	8-729-306-92	TRANSISTOR 2SD669A
to 7	•	0 (2) 00- 1-		Q612	8	8-729-304-92	TRANSISTOR 2SB649
Q8	В	8-729-281-53	TRANSISTOR 2SC1815-GR	Q613	8	8-729-306-92	
Q9	6	8-729-306-92		Q614	8	8-729-304-92	TRANSISTOR 2SB649
Q10	8	8-729-200-95	TRANSISTOR 2SJ74				
Q11	8	8-729-200-95	TRANSISTOR 2SJ74	R26	8	1-247-688-11	RES, CARBON 10 5% 1/4W
0101		0 700 017 00	TRANSISTOR 2SK170	R37	8	1-215-444-00	RES, METAL 9.1K 1% 1/6W
Q101 Q102	8	8-729-217-03 8-729-200-95	TRANSISTOR 28174	R39	8	1-215-444-00 1-215-444-00	RES, METAL 9.1K 1% 1/6W
Q102 Q103	8 8	8-729-307-58		R40 R41	8 8	1-215-444-00	RES, METAL 9.1K 1% 1/6W RES, METAL 9.1K 1% 1/6W
Q103	8	8-729-307-28	TRANSISTOR 2SA872A-E	R41	8	1-215-444-00	RES, METAL 9.1K 1% 1/6W
Q105	8	8-729-307-58	TRANSISTOR 2SC1775A		_		,
	-			R51	8	1-215-442-00	RES, METAL 7.5K 1% 1/6W
Q106	8	8-729-307-28	TRANSISTOR 2SA872A-E	R52	8	1-215-448-00	RES, METAL 13K 1% 1/6W
Q107	8	8-729-306-92	TRANSISTOR 2SD669A	R53	8	1-215-432-00	RES, METAL 3K 1% 1/6W
Q108	8	8-729-304-92		R54	8	1-215-430-00	RES, METAL 2.4K 1% 1/6W
Q109	8	8-729-306-92 8-729-304-92		R57	8	1-247-849-00	RES, CARBON 5.6K 5% 1/4W
Q110	8	U-123-JU4-32	AMERICAN AND TO				

				Ref.				
Ref.		w.	Possed-time	No.	SP	Parts No.	Description	
No.	SP	Parts No.	Description	NO.	51	ILLES NO.	201011	
		/	PEG 1000 19 1/60	R306	8	1-215-433-00	RES, METAL	3.3K 1% 1/6W
R60	8	1-215-452-00		R307	8	1-215-439-00	RES, METAL	5.6K 1% 1/6W
R61	8	1-215-445-00	RES, METAL 10K 17 1/6W	R308	8	1-215-439-00	RES, METAL	5.6K 1% 1/6W
R62	8	1-215-445-00	RES, METAL 10K 1% 1/6W	R309	8	1-215-439-00	RES, METAL	5.6K 1% 1/6W
R63	8	1-215-469-00	RES, METAL 100K 1% 1/6W	R310	8	1-215-417-00		680 1% 1/6W
R 64	8	1-215-469-00	RES, METAL 100K 1% 1/6W	KSIV	•	1-213-417 00	KEO, HETAE	000 18 1,011
		. 015 //5 00	PRO MERAL 10V 19 1/6V	R311	8	1-215-437-00	RES, METAL	4.7K 1% 1/6W
R65	8	1-215-445-00	RES, METAL 10K 1% 1/6W	R312	8	1-215-430-00	RES, METAL	2.4K 1% 1/6W
R66	8	1-215-469-00	RES, METAL 100K 1% 1/6W RES, METAL 1K 1% 1/6W	R313	8	1-215-463-00	RES, METAL	56K 1% 1/6W
R67	8	1-215-421-00		R314	8	1-215-435-00	RES, METAL	3.9K 1% 1/6W
R68	8	1-215-469-00		R315	8	1-215-421-00	RES, METAL	1K 1% 1/6W
R69	8	1-215-469-00	RES, METAL 100K 1% 1/6W	1015	٠	1 215 421 00	MDO, IDIID	2.0 2,
D101	_	1 215 462 00	RES, METAL 51K 1% 1/6W	R316	8	1-215-421-00	RES, METAL	1K 1% 1/6W
R101	8	1-215-462-00	RES, METAL 51K 1% 1/6W RES, METAL 6.2K 1% 1/6W	R317	8	1-215-445-00	RES, METAL	10K 1% 1/6W
R104	8	1-215-440-00	RES, METAL 6.2K 1% 1/6W	R318	8	1-215-445-00	RES, METAL	10K 1% 1/6W
R105	8	1-215-440-00 1-215-430-00	RES, METAL 2.4K 1% 1/6W	R319	8	1-215-452-00	RES, METAL	20K 1% 1/6W
RIII	8	1-215-444-00	RES, METAL 9.1K 1% 1/6W	R320	8	1-215-373-31	RES, METAL	10 1% 1/6W
R117	8	1-213-444-00	RED, FIDIAL JULY 18 17 54		•			
R118	8	1-215-444-00	RES, METAL 9.1K 1% 1/6W	R321	8	1-215-373-31	RES, METAL	10 1% 1/6W
R119	8	1-215-444-00	RES, METAL 9.1K 1% 1/6W		_		•	
R120	8	1-215-444-00	RES, METAL 9.1K 1% 1/6W	R401	8	1-215-463-00	RES, METAL	56K 1% 1/6W
R124	8	1-215-452-00	RES, METAL 20K 1% 1/6W	R402	8	1-215-463-00	RES, METAL	56K 1% 1/6W
R125	8	1-215-452-00	RES, METAL 20K 1% 1/6W	R403	8	1-215-439-00	RES, METAL	5.6K 1% 1/6W
1447	-			R404	8	1-215-439-00	RES, METAL	5.6K 1% 1/6W
R129	8	1-247-887-00	RES, CARBON 220K 5% 1/4W				•	
R134	8	1-247-849-00	RES, CARBON 5.6K 5% 1/4W	R405	8	1-215-433-00	RES, METAL	3.3K 1% 1/6W
R137	8	1-247-881-00	RES, CARBON 120K 5% 1/4W	R406	8	1-215-433-00	RES, METAL	3.3K 1% 1/6W
R138	8	1-215-452-00	RES, METAL 20K 1% 1/6W	R407	ß	1-215-439-00	RES, METAL	5.6K 1% 1/6W
R141	8	1-247-838-00	RES, CARBON 2K 5% 1/4W	R408	8	1-215-439-00	RES, METAL	5.6K 1% 1/6W
21272	_		•	R409	8	1-215-439-00	RES, METAL	5.6K 1% 1/6W
R143	8	1-215-430-00	RES, METAL 2.4K 1% 1/6W					
R149	8	1-215-452-00	RES, METAL 20K 1% 1/6W	R410	8	1-215-417-00	RES, METAL	680 1% 1/6W
R158	8	1-247-689-11	RES, CARBON 12 5% 1/4W	R411	8	1-215-437-00	RES, METAL	4.7K 1% 1/6W
R159	8	1-247-689-11	RES, CARBON 12 5% 1/4W	R412	8	1-215-430-00	RES, METAL	2.4K 1% 1/6W
24.77	•	• •		R413	8	1-215-463-00	RES, METAL	56K 1% 1/6W
R160	8	1-215-462-00	RES, METAL 51K 1% 1/6W	R414	8	1-215-435-00	RES, METAL	3.9K 1% 1/6W
R161	8	1-215-462-00	RES, METAL 51K 1% 1/6W					
R164	8	1-247-688-11	RES, CARBON 10 5% 1/4W	R415	8	1-215-421-00	RES, METAL	1K 1% 1/6W
R165	8	1-215-440-00	RES, METAL 6.2K 1% 1/6W	R416	8	1-215-421-00	RES, METAL	1K 1% 1/6W
R166	8	1-215-432-00	RES, METAL 3K 1% 1/6W	R417	8	1-215-445-00	RES, METAL	10K 1% 1/6W
				R418	8	1-215-445-00	RES, METAL	10K 1% 1/6W
R167	8	1-215-432-00	RES, METAL 3K 1% 1/6W	R419	8	1-215-452-00	RES, METAL	20K 1% 1/6W
R201	8	1-215-462-00	RES, METAL 51K 1% 1/6W					
R204	8	1-215-440-00	RES, METAL 6.2K 1% 1/6W	R420	8	1-215-373-31		10 1% 1/6W
R205	8	1-215-440-00	RES, METAL 6.2K 1% 1/6W	R421	8	1-215-373-31	RES, METAL	10 1% 1/6W
R211	8	1-215-430-00	RES, METAL 2.4K 1% 1/6W	R501	8	1-215-445-00	RES, METAL	10K 1% 1/6W
R217	8	1-215-444-00	RES, METAL 9.1K 1% 1/6W	R502	8	1-215-445-00		10K 1% 1/6W
to 2:	20			R503	8	1-215-438-00	RES, METAL	5.1K 1% 1/6W
R229	8	1-247-887-00		R504	g	1-215-438-00		5.1K 1% 1/6W
R234	8	1-247-849-00	RES, CARBON 5.6K 5% 1/4W	R506	8	1-215-445-00	-	10K 1% 1/6W
R237	8	1-247-881-00	RES, CARBON 120K 5% 1/4W	R509	8	1-215-445-00		10K 1% 1/6W
R238	8	1-215-452-00	RES, METAL 20K 1% 1/6W	R512	8	1-215-430-00	RES, METAL	2.4K 1% 1/6W
R241	8	1-247-838-00	RES, CARBON 2K 5% 1/4W	R515	8	1-215-461-00	KES, METAL	47K 1% 1/6W
								1007 19 1/6-
R243	8	1-215-430-00	RES, METAL 2.4K 1% 1/6W	R516	8	1-215-469-00	RES, METAL	100K 1% 1/6W
R249	8	1-215-452-00	RES, METAL 20K 1% 1/6W	R517	8	1-215-429-00	RES, METAL	2.2K 1% 1/6W
R258	8	1-247-689-11	RES, CARBON 12 5% 1/4W	R518	8	1-215-445-00	RES, METAL	10K 1% 1/6W
R259	8	1-247-689-11	RES, CARBON 12 5% 1/4W	R519	8	1-215-445-00	RES, METAL	10K 1% 1/6W
R260	8	1-215-462-00	RES, METAL 51K 1% 1/6W	R520	8	1-215-452-00	RES, METAL	20K 1% 1/6W
								0 07 19 1/6
R26 1	8	1-215-462-00	RES, METAL 51K 1% 1/6W	R522	8	1-215-429-00		2.2K 1% 1/6W
R264	8	1-247-688-11	RES, CARBON 10 5% 1/4W	R523		1-215-437-00	RES, METAL	4.7K 1% 1/6W
R265	8	1-215-440-00	RES, METAL 6.2K 1% 1/6W	to 5	26			
R266	8	1-215-432-00	RES, METAL 3K 1% 1/6W					10 10 1/4
R267	8	1-215-432-00	RES, METAL 3K 1% 1/6W	R527		1-215-373-31	RES, METAL	10 1% 1/6W
				to 5	30			
R301	8	1-215-463-00	RES, METAL 56K 1% 1/6W				nna ainne	10 50 1/2"
R302	8	1-215-463-00	RES, METAL 56K 1% 1/6W	R531	8	1-247-689-11	RES, CARBON	
R303	8	1-215-439-00	RES, METAL 5.6K 1% 1/6W	R532	8	1-247-689-11	RES, CARBON	
R304	8	1-215-439-00	RES, METAL 5.6K 1% 1/6W	R533	8	1-215-462-00	RES, METAL	51K 1% 1/6W
R305	8	1-215-433-00	RES, METAL 3.3K 1% 1/6W	R534	8	1-215-462-00	RES, METAL	51K 1% 1/6W
				R601	8	1-215-445-00	RES, METAL	10K 1% 1/6W

 $^{{\}tt NOTE}$: Please see pages D-21 for the part numbers of capacitors and resistors that are not listed in the parts list.

Ref.				Ref.			
No.	SP	Parts No.	Description	No.	SP	Parts No.	Description
R602	8	1-215-445-00	RES, METAL 10K 1% 1/6W	ARP-1	BOARI	D	
R603	8	1-215-438-00		_			rd No. 1-620-314-14
R604	8	1-215-438-00	RES, METAL 5.1K 1% 1/6W	and h	igher	only.)	
R606	8	1-215-445-00					
R609	8	1-215-445-00	RES, METAL 10K 1% 1/6W	This			COMPLETE PCB, ARP-1 the following parts.)
R612	8	1-215-430-00					
R615	8	1-215-461-00	RES, METAL 47K 1% 1/6W	-	8		LEVER, PC BOARD
R616 R617	8	1-215-469-00 1-215-429-00	RES, METAL 100K 1% 1/6W RES, METAL 2.2K 1% 1/6W	_	8	1-561-832-00	SOCKET, SHORT
R618	8 8		RES, METAL 10K 1% 1/6W	_	0	4-920-505-01 1-565-413-11	
2020	٠	1 213 445 00	100, 101100 1011 1011		٠	1505-415-11	RECEPTAGEE, CONNCIOR 2F
R619	8	1-215-445-00	RES, METAL 10K 1% 1/6W	C1	8	1-123-330-00	CAP, ELECT 22 20% 25V
R6 20	8	1-215-452-00		C2	8	1-124-477-11	CAP, ELECT 47 20% 25V
R622	8	1-215-429-00		C3	8	1-123-382-00	CAP, ELECT 3.3 20% 100V
R623 to 626	8 5	1-213-437-00	RES, METAL 4.7K 1% 1/6W	C4 C5	8 8	1-123-382-00 1-123-875-11	CAP, ELECT 3.3 20% 100V CAP, ELECT 10 20% 50V
24.07			PRO 100 10 10 1/60				
R627 to 630	8	1-210-3/3-31	RES, METAL 10 1% 1/6W	C6 C7	8	1-123-875-11	CAP, ELECT 10 20% 50V
10 03	J			C8	8 8	1-162-179-11 1-162-179-11	CAP, CERAMIC 0.1 50V CAP, CERAMIC 0.1 50V
R631	8	1-247-689-11	RES, CARBON 12 5% 1/4W	C9	8	1-124-791-11	CAP, CERAMIC 0.1 50V CAP, ELECT 1 20% 50V
R632	8		RES, CARBON 12 5% 1/4W	C10	8	1-136-156-00	CAP, METAL 0.018 5% 50V
R633	8	1-215-462-00	RES, METAL 51K 1% 1/6W		_		,
R634	8	1-215-462-00	RES, METAL 51K 1% 1/6W	C11	8	1-136-153-00	CAP, METAL 0.01 5% 50V
nn 1	_	1 225 005-00	BECTOTOR RIGOR ATV	C12	8	1-124-282-00	
RB1	8	1-235-005-00	RESISTOR BLOCK 47K	C12	_	1 160 170 11	22 20% 25V
RL1	8	1-515-656-11	RELAY (PLASTIC SEAL)	C13 to16	8	1-162-1/9-11	CAP, CERAMIC 0.1 50V
to 3							
RL101		1-515-656-11	RELAY (PLASTIC SEAL)	C17	8	1-124-282-00	
to 10		1 313 030 11	10011	C18	8	1_102_100_00	22 20% 25V CAP, CERAMIC 180P 10% 50V
	-			to 21		1-102-109-00	CAT, CERAMIC 1807 10% JUV
RL202	8	1-515-656-11	RELAY (PLASTIC SEAL)				
RL203	8		RELAY (PLASTIC SEAL)	C22	8	1-124-282-00	CAP, ELECT NONPOLAR
RL501			RELAY (PLASTIC SEAL)				22 20% 25V
RL601	8	1-515-656-11	RELAY (PLASTIC SEAL)	C23		1-102-963-00	
Day I	_	1 120 062-11	DEC ANT METAT TOP	C24		1-162-179-11	
RV1 RV2	8		RES, ADJ, METAL 10K RES, ADJ, METAL 2K	C25		1-162-179-11	CAP, CERAMIC 0.1 50V
RV3	8		RES, ADJ, METAL 10K	C26	8	1-124-282-00	CAP, ELECT NONPOLAR
to 8	٠	1 250 0.5 22	1110, 1110, 111111111111111111111111111				22 20% 25V
				C27	8	1-161-074-00	CAP, CERAMIC 4700P 5% 25V
RV101		1-230-843-11	RES, ADJ, METAL 10K	C28	8	1-126-320-11	CAP, ELECT NONPOLAR
to 10	4						10 20% 16V
DWAAT		1 020 062 11	DEC AND METAL TAY	C29		1-162-179-11	CAP, CERAMIC 0.1 50V
RV201 to 20		1-230-643-11	RES, ADJ, METAL 10K	C30		1-109-626-00	CAP, MICA 100P 2% 500V
10 20	4			C31	8	1-109-626-00	CAP, MICA 100P 2% 500V
RV301	8	1-230-839-11	RES, ADJ, METAL 500	C32	8	1-162-179-11	CAP, CERAMIC 0.1 50V
RV302	8		RES, ADJ, CERMET 10K	to 39	•	1 102 1/7 11	OAI, OBRANIO U.I 50V
RV401	8		RES, ADJ, METAL 500				
RV402	8		RES, ADJ, CERMET 10K	C40	8	1-104-302-11	CAP, STYROL 0.001 5% 50V
RV501	8	1-228-932-00	RES, ADJ, CERMET 10K	C41	8	1-103-732-00	CAP, STYROL 0.002 5% 50V
RV601	8	1-228-932-00	RES, ADJ, CERMET 10K	C42		1-104-302-11	CAP, STYROL 0.001 5% 50V
SW1	8	1-553-441-00	SWITCH, TOGGLE	C43		1-162-179-11	CAP, CERAMIC 0.1 50V
0W1	8	1-333-441-00	SWITCH, TOGGE	C44	g	1-162-179-11	CAP, CERAMIC 0.1 50V
TH1	8	1-800-202-XX	THERMISTOR S-10K	C45	8	1-123-333-00	CAP, ELECT 100 20% 25V
				C46		1-123-333-00	CAP, ELECT 100 20% 25V
				C47		1-123-333-00	CAP, ELECT 100 20% 25V
			•	C48		1-162-179-11	CAP, CERAMIC 0.1 50V
				to 51			
				C52	_	1_102_220_00	OAD BY BOTH OR OOM C
				C52 C53		1-123-330-00 1-123-330-00	CAP, ELECT 22 20% 25V
				C101		1-126-320-11	CAP, ELECT 22 20% 25V CAP, ELECT NONPOLAR
					-	11	10 20% 16V
				C102	8	1-126-320-11	CAP, ELECT NONPOLAR
				a1 aa		1 100 150	10 20% 16V
				C103	8	1-136-153-00	CAP, METAL 0.01 5% 50V
			· ·	C104	8	1-136-153-00	CAP, METAL 0.01 5% 50V
						1-126-320-11	CAP, ELECT NONPOLAR
							10 20% 16V
						1-162-179-11	CAP, CERAMIC 0.1 50V
							CAP CERAMIC 0.1 50V
				C108	•	1-101-888-00	CAP, CERAMIC 68P 5% 50V

n. c						Ref.			
Ref. No.	SP	Parts No.	Desci	iption		No.	SP	Parts No.	Description
				•					·
C109	8	1-162-179-11		CERAMIC 0.1	50 V	C210	8	1-162-179-11	CAP, CERAMIC 0.1 50V
C110	8	1-162-179-11		CERAMIC 0.1	50 V	C211	8	1-124-499-11	CAP, ELECT NONPOLAR 1.0 20% 50V
C111	8	1-124-499-11	CAP,	ELECT NONPOLAR 1.0 20%	50 V	C212	8	1-102-109-00	CAP, CERAMIC 180P 10% 50V
C112	8	1-102-109-00	CAP,	CERAMIC 180P 10%		C213	8	1-102-109-00	CAP, CERAMIC 180P 10% 50V
to 11	5					C214	8	1-102-109-00	CAP, CERAMIC 180P 10% 50V
			01.0	GPD 4 WT G G 1	EO.	C215	8	1-102-109-00	CAP, CERAMIC 180P 10% 50V
C116 C117	8 8	1-162-179-11 1-124-006-11		CERAMIC 0.1 ELECT NONPOLAR	50 V	C216	8	1-162-179-11	CAP, CERAMIC 0.1 50V
0117	•	1 124 000 11	···- ,		25V	C217	8	1-124-006-11	CAP, ELECT NONPOLAR
C118	8	1-162-179-11		CERAMIC 0.1	50 V	C210	_	1-162-179-11	10 20% 25V
C120	8	1-124-499-11	CAP,	ELECT NONPOLAR 1 20%	50 V	C218 C220	8 8	1-102-179-11	CAP, CERAMIC 0.1 50V CAP, ELECT NONPOLAR
C121	8	1-102-114-00	CAP.	CERAMIC 470P 10%					1.0 20% 50V
	_		-						
C122	8	1-124-499-11	CAP,	ELECT NONPOLAR	E011	C221 C222	8 8	1-102-114-00 1-124-499-11	CAP, CERAMIC 470P 10% 50V CAP, ELECT NONPOLAR
C123	_	1-136-155-00	CAP	1 20% METAL 0.015 5%	50 V	0222	•	1 124 477 11	1.0 20% 50V
C123	8 8	1-124-286-00		ELECT NONPOLAR	501	C223	8	1-136-155-00	CAP, METAL 0.015 5% 50V
				. 33 20%	16 V	C224	8	1-124-286-00	CAP, ELECT NONPOLAR
C125	8	1-101-888-00			50 V	C225	8	1-101-888-00	33 20% 16V CAP, CERAMIC 68P 5% 50V
C126	8	1-136-158-00	CAP,	METAL 0.027 5%	50 V		_	1 101 000 00	54 501
C127	8	1-162-179-11	CAP,	CERAMIC 0.1	50 V	C226	8	1-136-158-00	CAP, METAL 0.027 5% 50V
C128	8	1-162-179-11		CERAMIC 0.1	50 V	C227 C228	8 8	1-162-179-11 1-162-179-11	CAP, CERAMIC 0.1 50V CAP, CERAMIC 0.1 50V
C129	8	1-102-114-00 1-124-499-11		CERAMIC 470P 10% ELECT NONPOLAR	201	C229	8	1-102-114-00	CAP, CERAMIC 470P 10% 50V
C130	8	1-124-499-11	oni,		50 V	C230	8	1-124-499-11	CAP, ELECT NONPOLAR
C131	8	1-161-048-00	CAP,	CERAMIC 5600P 10%	50 V				1.0 20% 50%
-100		1 160 170 11	CAD	CERANTO A 1	50 V	C231	8	1-161-048-00	CAP, CERAMIC 560P 10% 50V
C132 C133	8 8	1-162-179-11 1-162-179-11		CERAMIC 0.1 CERAMIC 0.1	50 V	C232	8	1-162-179-11	CAP, CERAMIC 0.1 50V
C135	8	1-162-179-11		CERAMIC 0.1	50 V	C233	8	1-162-179-11	CAP, CERAMIC 0.1 50V
C136	6	1-124-006-11	CAP,	ELECT NONPOLAR		C235 C236	8 8	1-162-179-11 1-124-006-11	CAP, CERAMIC 0.1 50V CAP, ELECT NONPOLAR
0120	_	1 124477_11	CAD		25V 25V	0250	•	1-124-000-11	10 20% 25%
C139	8	1-124-477-11	UAI,	ELECT 47 20%	251				
C140	8	1-162-179-11	CAP,	CERAMIC 0.1	50 V	C237	8	1-162-179-11	CAP, CERAMIC 0.1 50V
C141	8	1-162-179-11		CERAMIC 0.1	50 V	C238 C239	8 8	1-162-179-11 1-124-477-11	CAP, CERAMIC 0.1 50V CAP, ELECT 47 20% 25V
C142	8	1-124-477-11 1-124-477-11			25V 25V	C240	8	1-162-179-11	CAP, CERAMIC 0.1 50V
C143 to 14	.s	1-124-4//-11	oni,	EDECT 4/ 10%	251	C241	8	1-162-179-11	CAP, CERAMIC 0.1 50V
						C2.62	_	1 104 477 11	CAD B1 B0W 47 90% 95%
C147	8	1-124-791-11			50 V	C242 C243	8	1-124-477-11 1-124-477-11	CAP, ELECT 47 20% 25V CAP, ELECT 47 20% 25V
C148	8	1-102-963-00 1-124-477-11	-		50 V 25 V	C244	8	1-124-477-11	CAP, ELECT 47 20% 25V
C149 C150	8 8	1-162-179-11		CERAMIC 0.1	50 V	C245	8	1-124-477-11	CAP, ELECT 47 20% 25%
C151	8	1-108-795-11	CAP,	MYLAR 1800P 5%	50 V	C247	8	1-124-791-11	CAP, ELECT 1.0 20% 50V
		1 100 111 00	CAD	CERAMIC 270P 10%	50 V	C248	s	1-102-963-00	CAP, CERAMIC 33P 5% 50V
C152 C153	8 8	1-102-111-00 1-124-477-11			25V	C249	8	1-124-477-11	CAP, ELECT 47 20% 25V
C154	8	1-162-179-11		CERAMIC 0.1	50 V	C250	8	1-162-179-11	CAP, CERAMIC 0.1 507
C155	8	1-124-282-00	CAP,	ELECT NONPOLAR		C251 C252	8 8	1-108-795-11 1-102-111-00	CAP, MYLAR 1800P 5% 50V CAP, CERAMIC 270P 10% 50V
01 57	_	1_102_074-00	CAD		25V 50V		•	102 111 00	, OLIMINIO 2/01 10% 301
C156	8	1-102-074-00	var,	CERAMIC 0.001 10%		C253	8	1-124-477-11	CAP, ELECT 47 20% 25%
C160	8	1-124-477-11	CAP,		25V	C254	8	1-162-179-11	CAP, CERAMIC 0.1 50V
C161	8	1-124-477-11			25V	C255	8	1-124-282-00	CAP, ELECT NONPOLAR 22 20% 25V
C162	8	1-124-477-11			25V 25V	C256	8	1-102-074-00	CAP, CERAMIC 0.001 10% 50V
C163 C164	8 8	1-124-477-11 1-123-334-00			25V	C260	8	1-124-477-11	CAP, ELECT 47 20% 25%
V104	•	1 123 334 00	,			0261	_	1_124_677 11	OAD DIDOT /7 000 05-
c165	8	1-123-334-00			25V	C261 C262	8 8	1-124-477-11 1-124-477-11	CAP, ELECT 47 20% 25% CAP, ELECT 47 20% 25%
C201	B	1-126-320-11	CAP,	ELECT NONPOLAR	1617	C263	8	1-124-477-11	CAP, ELECT 47 20% 25%
C2O 2	8	1-126-320-11	CAP.	10 20% ELECT NONPOLAR	16 V	C264	8	1-123-334-00	CAP, ELECT 220 20% 25V
V20 2	•			10 20%	16 V	C265	8	1-123-334-00	CAP, ELECT 220 20% 25v
C203	8	1-136-153-00			50 V	C301	8	1-162-179-11	CAP, CERAMIC 0.1 50v
c204	8	1-136-153-00	CAP,	METAL 0.01 5%	50 V	C302	8	1-162-179-11	CAP, CERAMIC 0.1 50V
C2O 5	8	1-126-320-11	CAP.	ELECT NONPOLAR		C303	8	1-162-179-11	CAP, CERAMIC 0.1 50V
	-		•	10 20%	16 V	C304	8 8	1-162-179-11	CAP, CERAMIC 0.1 50V
C206	8	1-162-179-11		CERAMIC 0.1	50 V	C305	•	1-101-888-00	CAP, CERAMIC 68P 5% 50V
¢207	8	1-162-179-11 1-101-888-00		CERAMIC 0.1 CERAMIC 68P 5%	50 V 50 V				
C208 C209	8	1-162-179-11		CERAMIC 0.1	50 V				
	-		·						

Ref.				Ref.			
No.	SP	Parts No.	Description	No.	SP	Parts No.	Description
C306	8	1-162-179-11	CAP, CERAMIC 0.1 50V	D112	8	8-719-911-19	DIODE 188119
C307	8	1-124-477-11	CAP, ELECT 47 20% 25V	to 116			
C308	8	1-124-477-11	CAP, ELECT 47 20% 25V CAP, CERAMIC 0.1 50V	D201	8	8-719-911-19	DTODE 199110
C401 C402	8	1-162-179-11 1-162-179-11	CAP, CERAMIC 0.1 50V CAP, CERAMIC 0.1 50V	to 207		0-/19-911-19	DIODE 183119
•	_		·				
C403	8	1-162-179-11	CAP, CERAMIC 0.1 50V	D208 to 211	8	8-719-906-52	DIODE HZ15-2
C404 C405	8 8	1-162-179-11 1-101-888-00	CAP, CERAMIC 0.1 50V CAP, CERAMIC 68P 5% 50V	10 211			
C406	8	1-162-179-11	CAP, CERAMIC 0.1 50V	D212	8	8-719-911-19	DIODE 188119
C407	8	1-124-477-11	CAP, ELECT 47 20% 25V	to 216	•		
C408	8	1-124-477-11	CAP, ELECT 47 20% 25V	D301	8	8-719-911-19	DIODE 188119
C501	8	1-162-179-11	CAP, CERAMIC 0.1 50V	to 306			
C502	8	1-162-179-11	CAP, CERAMIC 0.1 50V				
C504	8 8	1-162-179-11 1-162-179-11	CAP, CERAMIC 0.1 50V CAP, CERAMIC 0.1 50V	D401 to 406	8	8-719-911-19	DIODE 188119
C507		1-102-179-11	OAI, OLIMICO OIL SOT	10 400	•		
C508	8	1-162-179-11	CAP, CERAMIC 0.1 50V		8	8-719-911-19	DIODE 188119
C509	8	1-124-006-11	CAP, ELECT NONPOLAR 10 20% 25V	to 507			
C510	8	1-162-179-11	CAP, CERAMIC 0.1 50V	D508	8	8-719-906-52	DIODE HZ15-2
C511	8	1-124-477-11	CAP, ELECT 47 20% 25V	to 511	Į		
C512	8	1-124-477-11	CAP, ELECT 47 20% 25V				
C513	8	1-124-477-11	CAP, ELECT 47 20% 25V	D601	8	8-719-921-19	DIODE 188119TG
C514	8	1-124-477-11	CAP, ELECT 47 20% 25V	to 607			
C515	8	1-162-179-11	CAP, CERAMIC 0.1 50V	DC00	_	0 710 006 50	BTODE W015 0
C516 C517	8	1-124-477-11 1-124-477-11	CAP, ELECT 47 20% 25V CAP, ELECT 47 20% 25V	D609 to 611	8	8-719-906-52	DIODE H215-2
0317	•	1 124 4// 12			•		
C518	8	1-124-477-11	CAP, ELECT 47 20% 25V		8	8-759-202-74	IC TC74HC04P
C519	8	1-124-477-11 1-124-477-11	CAP, ELECT 47 20% 25V CAP, ELECT 47 20% 25V	IC2 IC3	8 8	8-759-202-74 8-759-974-07	IC TC74HC04P IC SN7407N
C520 C521	8 8	1-124-477-11	CAP, ELECT 47 20% 25V	1C4	8	8-759-974-06	IC SN7407N
C524	8	1-124-477-11	CAP, ELECT 47 20% 25V	IC5	8	8-759-202-21	IC TC74HC32P
			0. D D D D D D D D D D D D D D D D D D D	***		0 750 000 11	** ****
C522 C523	8 8	1-123-334-00 1-123-334-00	CAP, ELECT 220 20% 25V CAP, ELECT 220 20% 25V		8 8	8-759-202-11 8-759-202-74	IC TC74HC00P
C601	8	1-162-179-11	CAP, CERAMIC 0.1 50V	IC8	8	8-759-990-04	IC TLO74CN
C602	8	1-162-179-11	CAP, CERAMIC 0.1 50V	109	8	8-759-910-83	IC TLO72ACP
C604	8	1-162-179-11	CAP, CERAMIC 0.1 50V	IC10	8	8-759-981-57	IC RC2043DD
C607	8	1-162-179-11	CAP, CERAMIC 0.1 50V	IC11	8	8-759-910-83	IC TLO72ACP
C608	8	1-162-179-11	CAP, CERAMIC 0.1 50V		8	8-759-990-04	IC TL074CN
C609	8	1-124-006-11	CAP, ELECT NONPOLAR 10 20% 25V		8	8-759-937-39	IC DG211CJ
C610	8	1-162-179-11	CAP, CERAMIC 0.1 50V		8	8-759-981-57 8-759-900-72	IC RC2043DD IC NE5532P
C611	8	1-124-477-11	CAP, ELECT 47 20% 25V				
0610		. 10/ /77 11	04 D RI ROW 47 20% 250		8	8-759-745-63	IC NJM4560D-X
C612 C613	8 8	1-124-477-11 1-124-477-11	CAP, ELECT 47 20% 25V CAP, ELECT 47 20% 25V		8 8	8-759-981-57 8-759-981-57	IC RC2043DD IC RC2043DD
C614	8	1-124-477-11	CAP, ELECT 47 20% 25V		8	8-759-745-63	IC NJM4560D-X
C615	8	1-136-179-11	CAP, CERAMIC 0.1 50V	IC106	8	8-749-901-29	IC BX-1481
C616	8	1-124-477-11	CAP, ELECT 47 20% 25V	TC107	_	9-750 005 42	TO NEEE24D
C617	8	1-124-477-11	CAP, ELECT 47 20% 25V		8 8	8-759-905-42 8-759-900-72	IC NE5534P IC NE5532P
C618	8	1-124-477-11	CAP, ELECT 47 20% 25V		8	8-759-745-63	IC NJM4560D-X
C619	8	1-124-477-11	CAP, ELECT 47 20% 25V		8	8-759-981-57	IC RC2043DD
C620 C621	8	1-124-477-11 1-124-477-11	CAP, ELECT 47 20% 25V CAP, ELECT 47 20% 25V	IC204	8	8-759-981-57	IC RC2043DD
0021	8	1-12	dir, 200 251	IC205	8	8-759-745-63	IC NJM4560D-X
C624	8	1-124-477-11	CAP, ELECT 47 20% 25V		8	8-749-901-29	IC BX-1481
C622	8	1-123-334-00	CAP, ELECT 220 20% 25V		8	8-759-905-42	IC NE5534P
C623	8	1-123-334-00	CAP, ELECT 220 20% 25V		8 8	8-759-900-72 8-759-900-72	IC NE5532P IC NE5532P
D1	8	8-719-911-19	DIODE 188119	10302	•	0-733-300-72	TO MEJJJZF
to 12					8	8-759-900-72	IC NE5532P
פנת		0_710_010_75	DIODE HZ7B2L		8	8-759-900-72	IC NE5532P
D13 D14	8 8	8-719-910-75 8-719-910-75	DIODE HZ782L DIODE HZ782L		8	8-759-900-72 8-759-900-72	IC NE5532P IC NE5532P
D15	8	8-719-925-06	DIODE ERC25-06S		8	8-759-900-72	IC NE5532P
D101	8	8-719-911-19	DIODE 188119				
to 10	J7				8	8-759-900-72	IC NE5532P
D108	8	8-719-906-52	DIODE HZ15-2		8 8	8-749-901-29 8-759-900-72	IC BX-1481 IC NE5532P
to 11					8	8-759-900-72	IC NE5532P
			•	IC603	8	8-749-901-29	IC BX-1481

NOTE: Please see pages D-21 for the part numbers of capacitors and resistors that are not listed in the parts list.

				Ref.							
Ref.	SP	Parts No.	Description	No.	SP	Parts No.	Desc	ription			
No.	or	rails No.	be a cription	2.00							
J21	8	1-566-385-11	PIN, CONNECTOR 2P	R41	8	1-247-854-11					
J22	8	1-566-385-11	PIN, CONNECTOR 2P	R42	8	1-247-854-11		CARBON			
J23	8	1-566-385-11		R47	8	1-247-903-00 1-247-852-11		CARBON			1/4W
J101	8	1-566-385-11	PIN, CONNECTOR 2P	R51 R52	8 8	1-247-858-11		CARBON CARBON			
J102	8	1-566-385-11	PIN, CONNECTOR 2P	KJ2	•	1 247 050 11	KLO,	Ozinbon	IJK	,,	1, 4"
J103	8	1-566-385-11	PIN, CONNECTOR 2P	R53	8	1-247-842-11	RES,	CARBON	3K	5%	1/4W
J104	8	1-566-385-11	PIN, CONNECTOR 2P	R54	8	1-247-840-00	RES,	CARBON	2.4K	5%	1/4W
J201	8		PIN, CONNECTOR 2P	R57	8	1-249-426-11		CARBON			
J202	8	1-566-385-11	PIN, CONNECTOR 2P	R60	8	1-247-862-11		CARBON			
			0077 GW 70	R61	8	1-215-445-00	KES,	METAL	IUK	1.6	1/ OM
Ll	8	1-409-309-00	COIL, SN 72	R62	8	1-215-445-00	RES.	METAL	10K	17	1/6W
L2	8	1-409-309-00	COIL, SN 72	R63	8	1-215-469-00			100K		
LV101	8	1-407-293-00	VARIABLE INDUCTOR 1.5M	R64	8	1-215-469-00	RES,	ME TAL	100K	17	1/6W
LV201	8		VARIABLE INDUCTOR 1.5M	R6 5	8	1-215-445-00		METAL			
				R66	8	1-215-469-00	RES,	METAL	100K	17	1/6W
Q1	8	8-729-122-03	TRANSISTOR 2SA1220A-P	n 6 7	_	1.215 421.00	DEC	METAT	10	1 4	1/60
Q2	8	8-729-300-72	TRANSISTOR 2SB647A	R67 R68	8 8	1-215-421-00 1-215-469-00		METAL METAL			1/6W
to 7				R69	8	1-215-469-00		METAL			
00		8-729-281-53	TRANSISTOR 2SC1815-GR	R101	8	1-247-872-11		CARBON			
Q8 Q9	8	8-729-306-92	TRANSISTOR 2SD669A	R104	8	1-247-850-11		CARBON			
Q10	8	8-729-200-95	TRANSISTOR 2SJ74								
Q11	8	8-729-200-95	TRANSISTOR 2SJ74	R105	8	1-247-850-11		CARBON			
Q101	8	8-729-217-04	TRANSISTOR 2SK170-V	R111	8	1-247-840-00		CARBON			
				R117	8	1-247-854-11		CARBON			
Q102	8	8-729-200-95	TRANSISTOR 2SJ74	R118 R119	8 8	1-247-854-11 1-247-854-11		CARBON CARBON			
Q107	8	8-729-306-92	TRANSISTOR 2SD669A TRANSISTOR 2SB649	MIII	•	1-24/-054-11	KES,	CARDON	7.14	<i></i>	1/40
Q108	8	8-729-304-92 8-729-306-92		R120	8	1-247-854-11	RES.	CARBON	9.1K	5%	1/4W
Q109 Q110	8		TRANSISTOR 2SB649	R124	8	1-247-862-11		CARBON			
Q110	•	0 ,2, 50, 52		R125	8	1-247-862-11	RES,	CARBON	20K	5%	1/4W
Q111	8	8-729-281-53	TRANSISTOR 2SC1815-GR	R128	8	1-247-903-00		CARBON			1/4W
Q112	8	8-729-306-92	TRANSISTOR 2SD669A	R129	8	1-247-887-00	RES,	CARBON	220K	5%	1/4W
Q113	8	8-729-306-92		D107		1 0/7 001 00	220	G4 BB ON	100#		1//**
Q114	8	8-729-304-92		R137	8	1-247-881-00		CARBON			
Q201	8	8-729-217-04	TRANSISTOR 2SK170-V	R138 R141	8 8	1-247-862-11 1-247-838-00		CARBON CARBON			1/4W
		0 710 100 05	TRANSISTOR 2SJ74	R143	8	1-247-840-00		CARBON			
Q202	8	8-729-200-95 8-729-306-92									-•
Q207 Q208	8 8	8-729-304-92		R147	8	1-247-862-00	RES,	CARBON	20K	5%	1/4W
Q209	8	8-729-306-92		R149	8	1-215-452-00	RES,	METAL	20K	1%	1/6W
Q210	8	8-729-304-92		R158	8	1-247-689-11		CARBON			1/4W
				R159	8	1-247-689-11		CARBON			1/4W
Q 211	8	8-729-281-53	TRANSISTOR 2SC1815-GR	R164	8	1-247-688-11	RES,	CARBON	10	5%	1/4W
Q212	8	8-729-306-92		R165	8	1-247-850-11	PFC	CARBON	6 28	59	1 / AW
Q213	8	8-729-306-92	TRANSISTOR 2SD669A TRANSISTOR 2SB649	R166	8	1-247-842-11		CARBON			1/6W
Q214	8	8-729-304-92 8-729-200-95		R167	8	1-247-842-11		CARBON			1/6W
Q301	8	0-729 200 33	IRANOIDION 2007 7	R201	8	1-247-872-11		CARBON			
Q302	8	8-729-217-04	TRANSISTOR 2SK170-V	R204	8	1-247-850-11		CARBON			
Q401	8	8-729-200-95	- · · · ·						,		
Q402	8	8-729-217-04	TRANSISTOR 2SK170-V	R205	8	1-247-850-11					
Q 501	8		TRANSISTOR 2SJ74	R211	8	1-247-840-00					
Q502	8	8-729-217-04	TRANSISTOR 2SK170-V	R217		1-247-854-11	RES,	CARBON	9.1K	2%	1/4W
		0 700 306 03	TO ANOTOTOD 200440A	to 22 R228	8	1-247-903-00	RES	CARBON	1 M	57	1/4W
Q511	8		TRANSISTOR 2SD669A TRANSISTOR 2SB649	R229	8	1-247-887-00	-				· .
Q512	8		TRANSISTOR 2SD669A		•	1 1 7 00 00	,	011110 011		٠.,	-,
Q513 Q514	8 8		TRANSISTOR 2SB649	R237	8	1-247-881-00	RES,	CARBON	120K	5%	1/4W
Q601	8	8-729-200-95		R238	8	1-247-862-11	RES,	CARBON	20K	5%	1/4W
400-	-	•		R241	8	1-247-838-00		CARBON			1/4W
Q602	8	8-729-217-04		R243	8	1-247-840-00	-	CARBON			
Q611	8	8-729-306-92		R2 47	8	1-247-862-00	RES,	CARBON	20K	5%	1/4W
Q612	8		TRANSISTOR 2SB649	R249		1-215-452-00	DPC	METAT	20¥	19	1/60
Q613	s		TRANSISTOR 2SD669A	R249 R258	8 8	1-247-689-11		METAL CARBON			1/4W
Q614	8	8-729-304-92	TRANSISTOR 2SB649	R259	8	1-247-689-11		CARBON			1/4W
n.	_	1_247_990_00	RES, CARBON 270K 5% 1/4W	R264	8	1-247-688-11		CARBON			1/4W
R2	8 8		RES, CARBON 10 5% 1/4W	R265	8	1-247-850-11		CARBON			
R26 R37	8		RES, CARBON 9.1K 5% 1/4W				- •			•	-
R39	8		RES, CARBON 9.1K 5% 1/4W	R266	8	1-247-842-11		CARBON		5%	1/6W
R40	8		RES, CARBON 9.1K 5% 1/4W	R267	8	1-247-842-11					1/6W
				R301	8	1-215-463-00		METAL			
				R302	8	1-215-463-00					
				R303	8	1-215-439-00	KES,	METAL	5.6K	1%	T\QM

Ref.							Ref	Ε.						
	SP	Parts No.	Description	1			No.		3P	Parts No.	Description			
							- 44				•			
	8	1-215-439-00	•			1/6W	R53			1-215-469-00				
	8	1-215-433-00				1/6W	R60			1-215-445-00		10K		
	8	1-215-433-00 1-215-439-00	RES, METAL RES, METAL			1/6W 1/6W	R60 R60			1-215-445-00		10K		
	8	1-215-439-00	RES, METAL			1/6W	R60			1-215-438-00 1-215-438-00		5.1K 5.1K		
1000	•	1 213 437 00	KLD, ILII	3.010		-, 0	200	,, .	•	1 113 430 00	REO, PETAL	7.17	1.6	1/0W
R309	8	1-215-439-00	RES, METAL	5.6K	1%	1/6W	R60	06 s	3	1-215-445-00	RES, METAL	10K	17	1/6W
R310	8	1-215-417-00	RES, METAL	680	17	1/6W	R60	09 E	3	1-215-445-00	RES, METAL	10K	1%	1/6W
	8	1-215-437-00				1/6W	R6 1		3	1-215-430-00		2.4K	1%	1/6W
	8	1-215-430-00	RES, METAL			1/6W	R61			1-215-461-00		47K		
R313	8	1-215-463-00	RES, METAL	56K	1%	1/6W	R6 1	16 8	3	1-215-469-00	RES, METAL	100K	1%	1/6W
R314	8	1-215-435-00	RES, METAL	3.9K	12	1/6W	R61	17 ε		1-215-373-31	RES, METAL	10	17	1/6W
	8	1-215-421-00	RES, METAL	1K		1/6W	R61			1-215-445-00				1/6W
	8	1-215-421-00	RES, METAL	1 K		1/6W	R61		3	1-215-451-00				1/6W
	8	1-215-445-00	RES, METAL	10K	17	1/6W	R62	20 ε	3	1-215-377-51				1/6W
R318	8	1-215-445-00	RES, METAL	10K	1%	1/6W	R62		8	1-215-437-00	RES, METAL	4.7K	17	1/6W
2010		1 015 /50 00	DEG 10041	007	1	1/611	to	625						
	8	1-215-452-00	RES, METAL RES, METAL	20K 10		1/6W 1/6W	R6 2	26 ε		1-215-373-31	RES, METAL	10	1 7	1/611
	8 8	1-215-373-31 1-215-373-31	RES, METAL	10		1/6W		629	•	1-215-575-51	KES, MEIAL	10	1.6	1/6W
	8	1-215-463-00	RES, METAL	56K		1/6W	-	02)						
	8	1-215-463-00	RES, METAL			1/6W	R6 2	21 E	9	1-215-377-51	RES, METAL	15	17	1/6W
	_	# 	•			•	R63			1-215-377-51		15		1/6W
R403	8	1-215-439-00	RES, METAL	5.6K	17	1/6W	R63	31 s	3	1-215-377-51				1/6W
R404	8	1-215-439-00	RES, METAL	5.6K	1%	1/6W	R63	32 ε	3	1-215-469-00		100K		
	8	1-215-433-00				1/6W	R63	33 s	3	1-215-469-00	RES, METAL	100K	17	1/6W
	8	1-215-433-00	RES, METAL			1/6W								
R407	8	1-215-439-00	RES, METAL	5.6K	1%	1/6W	R63			1-215-469-00	RES, METAL			
R408	_	1-215-439-00	RES, METAL	5 6V	17	1/6W	R63	35 ε	3	1-215-469-00	RES, METAL	100K	1%	1/6W
	8 8	1-215-439-00	RES, METAL			1/6W	RB1	l e		1-235-005-00	DESTSTON BIG	VCE.	/.7¥	
	8	1-215-417-00	RES, METAL			1/6W	KDI		,	1-233-003-00	RESISTOR BLO	CK	47 K	
	8	1-215-437-00				1/6W	RL1	l s		1-515-656-11	RELAY (PLAST	TC SE	'AT)	
	8	1-215-430-00	RES, METAL			1/6W	to			2 313 030 11	MDDII (IDIO)	TO DE	,	
			ŕ											
R413	8	1-215-463-00	RES, METAL	56K	17	1/6W	RL1	l01 s	3	1-515-656-11	RELAY (PLAST	IC SE	AL)	
R414	8	1-215-435-00	RES, METAL	3.9K	17	1/6W	to	103						
R415	8	1-215-421-00	RES, METAL	1 K		1/6W								
	8	1-215-421-00	RES, METAL	1K		1/6W	RL2			1-515-656-11				
R417	8	1-215-445-00	RES, METAL	IUK	1%	1/6W	RL2			1-515-656-11	RELAY (PLAST			
D410		1 215 445 00	RES, METAL	10K	17	1/6W	RL2 RL5			1-515-656-11 1-515-656-11	RELAY (PLAST			
	8	1-215-445-00 1-215-452-00	RES, METAL			1/6W	RL6			1-515-656-11	RELAY (PLAST RELAY (PLAST			
	s s	1-215-373-31		10		1/6W	1.20			1 313 030 11	KDDRI (IDASI	10 55	л.,	
	8	1-215-373-31	RES, METAL	10		1/6W	RV1		;	1-237-518-21	RES, ADJ, ME	TAL	10K	
	8	1-215-445-00	RES, METAL			1/6W	RV2	. s	3	1-237-516-21	RES, ADJ, ME		2K	
							RV3	8	;	1-237-518-21	RES, ADJ, ME	TAL	10K	
	8	1-215-445-00	RES, METAL	10K		-	to	6						
	8	1-215-438-00	RES, METAL			1/6W								
	8	1-215-438-00				1/6W	RV7			1-237-519-21	RES, ADJ, ME		20K	
	8	1-215-445-00	RES, METAL	10K			RV8			1-237-519-21	RES, ADJ, ME		20K	_
R509	8	1-215-445-00	RES, METAL	10K	1%	1/6W	RV9 RV1			1-237-521-21 1-237-518-21	RES, ADJ, ME		100)	
R512	8	1-215-430-00	RES, METAL	2 . 4K	12	1/6W		104	'	1 231-310-41	res, Aus, ME	TAP	10K	
	8	1-215-461-00	RES, METAL	47K										
	8	1-215-469-00	RES, METAL	100K			RV2	.01 s	ı	1-237-518-21	RES. ADJ. MR	TAI.	10ĸ	
R517	8	1-215-373-31	RES, METAL	10		1/6W		204			,,			
	8	1-215-445-00		10K	1%	1/6W								
								01 s	:	1-237-514-21	RES, ADJ, CE	RMET	500	
	8	1-215-451-00		18K			RV3			1-228-932-00	RES, ADJ, CE			
	8	1-215-377-51		15K				01 s		1-237-514-21	RES, ADJ, CE			
	8	1-215-377-51	RES, METAL	15K				02 s		1-228-932-00	RES, ADJ, CE			
	9	1-215-437-00	RES, METAL	4./K	1%	1/6M	RV5			1-228-932-00	RES, ADJ, CE			
to 525	•						RV6	01 s		1-228-932-00	KES, ADJ, CE	KMET	TOK	
R526	8	1-215-373-31	RES, METAL	10	1%	1/6W	SW1	8		1-553-441-00	SWITCH, TOGG	LE		
to 529			•			•					,			
							TH1	8		1-800-202-XX	THERMISTOR S	-10K		
	8	1-215-377-51				1/6W								
	8	1-215-377-51	RES, METAL	15		1/6W								
	8	1-215-469-00		100K										
	8	1-215-469-00 1-215-469-00		100K										
AJJ4	8	1-417-403-00	ABO, FIGIRE	1001	14	1/ UM								

Ref.			Ref.	Paramirahi an
	Parts No.	Description	No. SP Parts No. ICE7 s 8-759-203-48	Description IC TC74HC573P
СРО-34 ВО	ARD		ICE7 s 8-759-203-48 ICE8 s 8-759-202-56	IC TC74HC245P
- o (This ass		COMPLETE PCB, CPU-34 the following parts.)	ICF4 s 8-759-107-52	IC Z8036APS IC CXQ71054P
- o	3-621-124-00	SPACER	ICF6 s 8-759-744-03 ICF7 s 8-759-202-86	
C2 s	1-161-485-00	CAP, CERAMIC 0.1 50V	ICF8 8 8-759-202-55	
C3 s C7 s	1-161-485-00 1-161-485-00	•		
to 25	1-101-405-00	oni, onemio v.i jov	L1 s 1-409-309-00	•
C26 s	1-102-107-00	CAP, CERAMIC 120P 10% 50V	Q1 s 8-729-281-53 Q2 s 8-729-201-53	
C27 s	1-161-485-00	CAP, CERAMIC 0.1 50V	Q2	IMMOIOTOR ZONIOI)-GR
to 29			R20 s 1-214-971-00	RES, METAL 2.0M 1% 1/4W
C30 s	1-131-353-00	CAP, TANT 10 20% 35V CAP, CERAMIC 330P 5% 50V		RESISTOR BLOCK 47Kx4
C31 s C32 s	1-102-820-00 1-102-963-00	CAP, CERAMIC 330P 5% 50V CAP, CERAMIC 33P 5% 50V		RESISTOR BLOCK 47K
C33 s	1-161-485-00	CAP, CERAMIC 0.1 50V	RB3 s 1-235-005-00 RB4 s 1-235-005-00	RESISTOR BLOCK 47K RESISTOR BLOCK 47K
to 36				RESISTOR BLOCK 47K
C37 s	1-125-445-11	CAP, DOUBLE LAYERS	X1 s 1-567-930-11	VIBRATOR, LITHIUM TANTALATE
C38 s	1-161-485-00	0.22 5.5V CAP, CERAMIC 0.1 50V		
to 45			CTL-1 BOARD	
C46 s	1-102-107-00	CAP, CERAMIC 120P 10% 50V		ard No. 1-620-310-11 and
C47 s	1-102-107-00	CAP, CERAMIC 120P 10% 50V	-12 only.)	
C48 s C49 s	1-161-485-00 1-124-471-00	CAP, CERAMIC 0.1 50V CAP, ELECT 1000 20% 6.3V		
C50 s	1-124-471-00	CAP, ELECT 1000 20% 6.3V	- o A-7850-468-A (This assembly includes	COMPLETE PCB, CTL-1 the following parts.)
CN907 o	1-560-359-00	CONNECTOR POST HEADER, ILG (5P)	- s 2-251-622-00	LEVER, PC BOARD
D/ 0	8-719-949-33	DIODE FC53M-4	C1 s 1-123-333-00	
D4 s D5 s	8-719-911-19	DIODE 188119	C2 s 1-123-333-00	
			C4 s 1-136-161-00	CAP, METALIZED FILM 0.047uF 5% 507
ICA1 s	8-759-203-64		С6 в 1-136-169-00	
ICA2 s	8-759-202-26 8-759-937-43	IC TC74HC138P IC Z8002APS	C7 s 1-123-333-00	CAP, ELECT 100 20% 257
ICA4 s	8-759-202-21	IC TC74HC32P	C9 s 1-161-900-11	CAP, CERAMIC 1.0 50%
ICA5 s	8-759-202-11	IC TC74HC00P	C10 s 1-123-330-00	
ICA6 s	8-759-744-02	IC PCM3402CPUA6V2.0	to 16	
ICA7 s	8-759-202-26	IC TC74HC138P	D2 s 8-719-921-20	DIODE 188119TD
ICA8 s	8-759-001-42	IC MC74HC174N	to 4	D100E 1331171D
ICB1 s	8-759-000-99	IC MC74HC74N		
ICB2 s	8-759-203-33			DIODE TLR124 DIODE TLY124
ICB4 s	8-759-202-15	IC TC74HC10P	D7 s 8-719-812-41	
ICB5 s	8-759-000-99	IC MC74HC74N	D8 8 8-719-812-43	
ICB7 s	8-759-202-26	IC TC74HC138P	D9 s 8-719-812-44	DIODE TLO124
ICB8 s	8-759-202-55		D10 s 8-719-812-42	DIODE TLY124
		70 mc7/H000P	D11 s 8-719-812-43	
ICC1 s	8-759-202-11 8-759-203-40		to 14	
ICC3 s	8-759-995-14		D15 - 9-710-912-42	DIODE TLY124
ICC4 s	8-759-202-11	IC TC74HC00P	D15 s 8-719-812-42 D16 s 8-719-812-44	
ICC5 s	8-759-202-74	IC TC74HC04P		
1006 s	8-759-300-63	IC HM6264LP-15	ICA1 8 8-759-990-04	
ICC7 s	8-759-202-86	IC TC74HC123P	ICA3 s 8-759-202-74 ICA6 s 8-759-203-30	IC TC74HC04P IC TC74HC365P
ICC8 s	8-759-202-55	IC TC74HC244P	ICA7 s 8-759-202-26	
ICD1 s	8-759-202-24	IC ТС74HC86P	ICA8 s 8-759-202-26	IC TC74HC138P
ICD1 8	8-759-220-04		TCAQ . 9_750_20220	IC TC74HC365P
ICD3 s	8-759-937-46	IC Z8030APS	ICA9 8 8-759-203-30 ICA10 8 8-759-202-86	
ICD4 s	8-759-107-52	·	ICA11 8 8-759-913-17	
ICD6 s	8-759-300-63		ICB2 s 8-759-990-04	IC TL074CN
ICD7 s	8-759-203-48 8-759-202-56	IC TC74HC573P IC TC74HC245P	ICB4 s 8-759-776-56	IC MB7114L-CTL-B4
ICD8 s	0-139-202-30	10 10/7H017J1	ICB5 8 8-759-203-35	
			ICB6 8 8-759-203-35	IC TC74HC373P IC TC74HC374P
			ICB7 s 8-759-203-36	10 10/400/45

Ref.			The second second	Ref. No.	e D	Parts No.	Donomination
No.	SP	Parts No.	Description	NO.	ər	rarts No.	Description
ICB8	8	8-759-203-36	IC TC74HC374P	ICK1	8	8-759-916-99	IC SN74HC378N
ICB9	8	8-759-203-35	IC TC74HC373P	ICK2	8	8-759-916-99	IC SN74HC378N
ICB10	8	8-759-916-98	IC SN74HC377N	ICK3	8	8-759-202-27	IC TC74HC157P
ICB10	8	8-759-916-98	IC SN74HC377N	ICK4	8	8-759-202-21	IC TC74HC32P
TOBII		0-133-310-30	10 3874803778	ICK5	8	8-759-202-32	IC TC74HC163P
ICC6		8-759-916-99	IC 8N74HC378N	to 11	•	0 757 202 32	10 10,4101031
ICC7	8	8-759-203-30	IC TC74HC365P	10 11			
ICC8	8	8-759-202-32	IC TC74HC163P	ICL1	8	8-759-202-32	IC TC74HC163P
ICC9	8	8-759-776-57	IC MB7114L-CTL-C9	to 11		0 /// 202 32	10 10/4001031
ICC10	8	8-759-203-01	IC TC74HC175P				
ICCII	8	8-759-203-39	IC TC74HC390P	ICM1	8	8-759-776-68	IC MB7114L-CTL-M1
10011	8	0-/ 39-203-39	16 16/4865301	ICM2	8	8-759-202-84	IC TC74HC109P
ICD1	8	8-759-922-23	IC PCM53JP-V	ICM3	8	8-759-203-01	IC TC74HC175P
ICD1	8	8-759-922-23	IC PCM53JP-V	ICM4	8	8-759-202-11	IC TC74HC00P
ICD5	8	8-759-202-32	IC TC74HC163P	ICM5	8	8-759-202-98	
ICD6	8	8-759-776-58	IC MB7114L-CTL-D6	205	-	0 13, 202 30	10 10, 1101001
ICD7	8	8-759-202-32	IC TC74HC163P	ICM6	8	8-759-202-98	IC TC74HC166P
ICD/	•	0-755 ZOZ 3Z	10 1074101031	ICM7	8	8-759-203-61	IC TC74HC688P
ICD8	8	8-759-776-33	IC TBP28L42N-CTL-D8	ICM8	В	8-759-202-98	
ICD9	8	8-759-916-98	IC SN74HC377N	ICM9	8	8-759-203-61	IC TC74HC688P
ICD10	8	8-759-001-39	IC MC74HC164N	ICM10	8	8-759-202-98	IC TC74HC166P
ICDII	8	8-759-203-61	IC TC74HC688P	ICM11	8	8-759-203-61	IC TC74HC688P
TODII		0 755 205 01	20 207 4110000		•	0 /3, 203 01	10 10, 11100001
ICE1	8	8-759-776-59	IC MB7114L-CTL-E1	ICN1	8	8-759-202-32	IC TC74HC163P
ICE2	8	8-759-776-60	IC MB7114L-CTL-E2	ICN2	8	8-759-202-32	IC TC74HC163P
ICE3	8	8-759-776-61	IC MB7114L-CTL-E3	ICN3	8	8-759-202-26	IC TC74HC138P
ICE4	8	8-759-776-62	IC MB7114L-CTL-E4	ICN4	8	8-759-203-61	IC TC74HC688P
ICE6	8	8-759-916-99	IC SN74HC378N	ICN5	8	8-759-203-24	IC TC74HC283P
ICEO		0-139-310 33	10 507 40057 00	to 11		0-157 205 24	10 10/4102031
ICE7	8	8-759-202-32	IC TC74HC163P				
ICE8	8	8-759-202-98	IC TC74HC166P	Q1	8	8-729-200-95	TRANSISTOR 2SJ74
ICE9	8	8-759-913-17	IC CX23021	\tilde{Q}_2	8	8-729-281-52	TRANSISTOR 2SC1815-Y
ICE10	8	8-759-202-11	IC TC74HC00P	Q3	8	8-729-200-95	TRANSISTOR 2SJ74
ICE11	8	8-759-202-84	IC TC74HC109P	Q4	8	8-729-200-95	TRANSISTOR 2SJ74
10211	٠	0 755 202 01	20 201-1202072	4-	Ū	0 727 200 75	IMMODDION EDG/ 4
ICF1	8	8-759-776-63	IC MB7114L-CTL-F1	R1	8	1-215-452-00	RES, METAL 20K 1% 1/6W
ICF2	В	8-759-776-64	IC MB7114L-CTL-F2	R28	8	1-247-887-00	RES, CARBON 220K 5% 1/4W
ICF3	8	8-759-776-65	IC MB7114L-CTL-F3	R29	8	1-247-887-00	RES, CARBON 220K 5% 1/4W
ICF4	8	8-759-776-66	IC MB7114L-CTL-F4	R34	8	1-247-887-00	RES, CARBON 220K 5% 1/4W
ICF5	8	8-759-202-21	IC TC74HC32P				,
	_			RB1	8	1-235-005-00	RESISTOR BLOCK 47K
ICF6	8	8-759-916-99	IC SN74HC378N	to 3			
ICF7	8	8-759-202-32	IC TC74HC163P				
ICF8	8	8-759-202-14	IC TC74HC08P	RB4	8	1-231-399-00	RESISTOR BLOCK 330
ICF9	8	8-759-202-24	IC TC74HC86P	RB5	8	1-231-399-00	RESISTOR BLOCK 330
ICF10	8	8-759-202-14	IC TC74HC08P				
ICF11	8	8-759-202-21	IC TC74HC32P	RV1	8	1-230-843-11	RES, ADJ, METAL 10K
	_			RV2	8	1-230-845-11	RES, ADJ, METAL 50K
I CH1	8	8-759-916-99	IC SN74HC378N	RV3	8	1-230-846-11	RES, ADJ, METAL 100K
ICH2	8	8-759-916-99	IC SN74HC378N				•
ICH3	8	8-759-776-67	IC MB7114L-CTL-H3	SW1	8	1-554-329-00	SWITCH, TOGGLE
ICH4	8	8-759-202-74	IC TC74HC04P				-
I CH5	8	8-759-202-32	IC TC74HC163P				
	-						
I CH6	8	8-759-202-32	IC TC74HC163P				
I CH7	8	8-759-202-11	IC TC74HC00P				
ICH8	8	8-759-001-42	IC MC74HC174N				
ICH9	8	8-759-203-01	IC TC74HC175P				
ICH10	8	8-759-202-74	IC TC74HC04P				
ICH11	8	8-759-202-32	IC TC74HC163P				
ICJI	8	8-759-202-32	IC TC74HC163P				
ICJ2	8	8-759-202-32	IC TC74HC163P				
ICJ3	8	8-759-202-32	IC TC74HC163P				
ICJ4	8	8-759-001-42	IC MC74HC174N				
ICJ5	8	8-759-916-98	IC SN74HC377N				
	٠	3					
ICJ6	8	8-759-916-98	IC SN74HC377N				
ICJ7	8	8-759-202-32	IC TC74HC163P				
ICJ8	8	8-759-916-98	IC SN74HC377N				
ICJ9	8	8-759-202-11	IC TC74HC00P				
ICIIO	8	8-759-916-98	IC SN74HC377N				
ICJ11	a	8-759-202-18	IC TC74HC2OP				
	٠	3					

n . c				Ref.			
Ref. No.	SP	Parts No.	Description	No.	SP	Parts No.	Description
CTL-1	BOAR	D .		ICD1	8	8-759-922-23	IC PCM53JP-V
(Appl:	icabl	e to CTL-1 Boa	rd No. 1-620-310-13 and	ICD3	8	8-759-922-23	IC PCM53JP-V
	er on			ICD5	8	8-759-202-32	IC TC74HC163P
•		=		ICD6	8	8-759-776-58	IC MB7114L-CTL-D6
- (Thin	0		COMPLETE PCB, CTL-1 the following parts.)	ICD7	8	8-759-202-32	IC TC74HC163P
(11118	4550	mbly includes	the lottoning person,	ICD8	8	8-759-776-33	IC TBP28L42N-CTL-D8
_	8	2-251-622-11	LEVER, PC BOARD	ICD9	8	8-759-916-98	IC SN74HC377N
				ICD10	8	8-759-001-39	IC MC74HC164N
		1-123-333-00	CAP, ELECT 100 20% 25V	ICD11	В	8-759-203-61	IC TC74HC688P
C2	8	1-123-333-00	CAP, ELECT 100 20% 25V				
C3	8	1-136-153-00	CAP, METAL 0.01 5% 50V	ICE1	8	8-759-776-59	IC MB7114L-CTL-E1
C4	8	1-136-165-00	CAP, METAL 0.1 5% 50V	ICE2	8	8-759-776-60	IC MB7114L-CTL-E2
C5	8	1-136-177-00	CAP, METAL 1 5% 50V	ICE3	8	8-759-776-61	IC MB7114L-CTL-E3
				ICE4	8	8-759-776-62	IC MB7114L-CTL-E4
C 7	8	1-123-333-00	CAP, ELECT 100 20% 25V	ICE6	8	8-759-916-99	IC SN74HC378N
C9	8	1-161-900-11	CAP, CERAMIC 1.0 50V				
C10	8	1-123-330-00	CAP, ELECT 22 20% 25V	ICE7	8	8-759-202-32	IC TC74HC163P
to 1	6			ICE8	8	8-759-202-98	IC TC74HC166P
				ICE9	8	8-759-913-17	IC CX23021
D1	8	8-719-911-19	DIODE 188119	ICE10	6	8-759-202-11	IC TC74HC00P
D2	8	8-719-911-19	DIODE 188119	ICE11	8	8-759-202-84	IC TC74HC109P
to 4							
				ICF1	8	8-759-776-63	IC MB7114L-CTL-F1
D 5	8	8-719-812-41	DIODE TLR124	ICF2	8	8-759-776-64	IC MB7114L-CTL-F2
D6	8	8-719-812-42	DIODE TLY124	ICF3	8	8-759-776-65	IC MB7114L-CTL-F3
D 7	8	8-719-812-41	DIODE TLR124	ICF4	8	8-759-776-66	IC MB7114L-CTL-F4
				ICF5	8	8-759-202-21	IC TC74HC32P
D8	8	8-719-812-43	DIODE TLG124A				
D 9	8	8-719-812-44	DIODE TL0124	ICF6	8	8-759-916-99	IC SN74HC378N
D10	8	8-719-812-42	DIODE TLY124	ICF7	9	8-759-202-32	IC TC74HC163P
DII	8	8-719-812-43	DIODE TLG124A	ICF8	8	8-759-202-14	IC TC74HC08P
to 1	4			ICF9	8	8-759-202-24	IC TC74HC86P
				ICF10	8	8-759-202-14	IC TC74HC08P
D15	8	8-719-812-42	DIODE TLY124	ICF11	8	8-759-202-21	IC TC74HC32P
D16	8	8-719-812-44	DIODE TLO124				
D17	6	8-719-911-19	DIODE 188119	I CH 1	8	8-759-916-99	IC SN74HC378N
				ICH2	8	8-759-916-99	IC SN74HC378N
ICAl	8	8-759-990-04	IC TL074CN	ICH3	8	8-759-776-67	IC MB7114L-CTL-H3
ICA3	8	8-759-990-04	IC TLO74CN	I CH 4	8	8-759-202-74	IC TC74HC04P
ICA 6	8	8-759-203-30	IC TC74HC365P	ICH5	В	8-759-202-32	IC TC74HC163P
ICA7	8	8-759-202-26	IC TC74HC138P	I CH6		8-759-202-32	TO TO7/110162D
ICA8	8	8-759-202-26	IC TC74HC138P	ICHO	8	8-759-202-32	IC TC74HC163P IC TC74HC00P
7010	_	8-759-203-30	IC TC74HC365P	ICH7	8 8	8-759-202-11	IC MC74HC00P
ICA9	8		IC TC74HC123P	ICH9	8	8-759-203-01	IC TC74HC175P
ICAIO		8-759-202-86	IC CX23021	ICH10	6	8-759-202-74	IC TC74HC04P
ICA11	. 8	8-759-913-17	IO ORZJUZI	ICH11	8	8-759-202-32	IC TC74HC163P
ICB 2	8	8-759-990-04	IC TLO74CN		•	JE	
ICB 4	8	8-759-776-56	IC MB7114L-CTL-B4	ICJI	8	8-759-202-32	IC TC74HC163P
ICB 5	8	8-759-203-35	IC TC74HC373P	ICJ2	8	8-759-202-32	IC TC74HC163P
ICB6	8	8-759-203-35	IC TC74HC373P	1013	8	8-759-202-32	IC TC74HC163P
ICB 7	8	8-759-203-36	IC TC74HC374P	ICJ4	8	8-759-001-42	IC MC74HC174N
1007	•	0 . , , 200 00	20 207 (3325) 12	ICJ5	8	8-759-916-98	IC SN74HC377N
ICB8	8	8-759-203-36	IC TC74HC374P				
ICB 9	8	8-759-203-35	IC TC74HC373P	ICJ6	8	8-759-916-98	IC SN74HC377N
1CB 1 C) s	8-759-916-98	IC SN74HC377N	ICJ7	8	8-759-202-32	IC TC74HC163P
ICB 1 1		8-759-916-98	IC SN74HC377N	1018	8	8-759-916-98	IC SN74HC377N
				ICJ9	8	8-759-202-11	IC TC74HC00P
ICC5	8	8-759-202-74	IC TC74HC04P	10110	8	8-759-916-98	IC SN74HC377N
1006	6	8-759-916-99	IC SN74HC378N	ICJII	8	8-759-202-18	IC TC74HC20P
ICC7	8	8-759-203-30	IC TC74HC365P				
1008	8	8-759-202-32	IC TC74HC163P	ICK1	8	8-759-916-99	IC SN74HC378N
ICC9	8	8-759-776-57	IC MB7114L-CTL-C9	ICK2	8	8-759-916-99	IC SN74HC378N
				ICK3	8	8-759-202-27	IC TC74HC157P
ICC10		8-759-203-01	IC TC74HC175P	ICK4	8	8-759-202-21	IC TC74HC32P
ICC 1 1	. 8	8-759-203-39	IC TC74HC390P	ICK5	. 8	8-759-202-32	IC TC74HC163P
				to 1	L		

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Ref.
        SP Parts No.
                               Description
Νo.
        8 8-759-202-32 IC TC74HC163P
ICL1
to 11
             8-759-776-68 IC MB7114L-CTL-M1
8-759-202-84 IC TC74HC109P
ICMl
ICM2
             8-759-203-01 IC TC74HC175P
ICM3
             8-759-202-11
                               IC TC74HC00P
ICM4
             8-759-202-98 IC TC74HC166P
I CM5
             8-759-202-98 IC TC74HC166P
ICM6
         8
             8-759-203-61 IC TC74HC688P
8-759-202-98 IC TC74HC166P
ICM7
         8
ICM8
             8-759-203-61 IC TC74HC688P
8-759-202-98 IC TC74HC166P
8-759-203-61 IC TC74HC688P
ICM9
ICM10
ICM11
         8
             8-759-202-32 IC TC74HC163P
8-759-202-32 IC TC74HC163P
ICNI
ICN2
                              IC TC74HC138P
              8-759-202-26
ICN3
         8
              8-759-203-61 IC TC74HC688P
ICN4
         8
ICN5
              8-759-203-24 IC TC74HC283P
         8
 to 11
              8-729-200-95 TRANSISTOR 2SJ74
Q1
         8
 to 4
              1-247-881-00 RES, CARBON 120K 5% 1/4W
1-247-862-11 RES, CARBON 20K 5% 1/4W
R2
R7
              1-247-887-00
                                RES, CARBON 220K 5% 1/4W
R28
              1-247-887-00
                                RES, CARBON 220K 5% 1/4W
R29
              1-247-887-00
                                RES,
                                      CARBON 220K 5% 1/4W
R34
             1-235-005-00 RESISTOR BLOCK 47K
RB 1
 to 3
RB4
              1-231-399-00 RESISTOR BLOCK 330
              1-231-399-00 RESISTOR BLOCK 330
RB5
              1-237-518-21 RES, ADJ, CERMET 10K
1-237-521-21 RES, ADJ, CERMET 100K
1-237-521-21 RES, ADJ, CERMET 100K
RV I
RV2
RV3
RV4
              1-237-518-21
                              RES. ADJ. CERMET 10K
SW1
              1-554-329-00 SWITCH, TOGGLE
```

Ref.No.	•			Ref.			
No.	SP	Parts No.	Description	No.	SP	Parts No.	Description
DAD-1	gaag	n		C128	8	1-162-179-11	CAP, CERAMIC 0.1 50V
DAN-1	O		COMPLETE PCB, DAD-1	C129	8	1-123-332-00	CAP, ELECT 47 20% 25V
(This			the following parts.)	C130	8	1-136-170-00	CAP, METAL 0.27 5% 50V
(1111)			-uu-u-u-u-u-u-u-u-u-u-u-u-u-u-u-u-u-	C131	8	1-136-170-00	CAP, METAL 0.27 5% 50V
-	0	1-561-971-00	SOCKET (SINGLE INLINE) 20P	C132	8	1-123-332-00	CAP, ELECT 47 20% 25V
_	8	2-251-622-00	LEVER, PC BOARD	C133	8	1-123-332-00	CAP, ELECT 47 20% 25V
_	ō	3-621-124-00	SPACER	C134	8	1-162-179-11	CAP, CERAMIC 0.1 50V
_	ō	4-920-502-01	SHIELD, ADA	C135	8	1-102-959-00	CAP, CERAMIC 22P 5% 50V
-	8	7-682-647-09	SCREW +PSW 3x6	C201	8	1-162-179-11	CAP, CERAMIC 0.1 50V
-	8	7-684-023-04	N3, TYPE 2	C202	8	1-123-333-00	CAP, ELECT 100 20% 25V
AFL101	8	8-830-503-01	H-IC (BH-106)	C203	8	1-162-179-11	
AFL201		8-830-503-01	H-IC (BH-106)	C204	8	1-123-333-00	
AFL301		1-236-002-11	FILTER, LOW PASS (ACTIVE)	C205	8	1-130-479-00	CAP, FILM 4700P 5% 50V
AFL401	8	1-236-002-11	FILTER, LOW PASS (ACTIVE)	C206	8	1-162-179-11	
			0.D WINOM 100 00% 05%	C207	8	1-123-333-00	CAP, ELECT 100 20% 25V
C1	8	1-123-333-00		C208	8	1-101-880-00	CAP, CERAMIC 47P 5% 50V
C2	8	1-162-179-11	CAP, CERAMIC 0.1 50V	C209	8	1-162-179-11	CAP, CERAMIC 0.1 50V
to 30	,			C210	В	1-123-333-00	
G21	_	1-123-333-00	CAP, ELECT 100 20% 25V	C211	8	1-162-179-11	CAP, CERAMIC 0.1 50V
C31 C32	8 8	1-162-179-11	CAP, CERAMIC 0.1 50V	C212	8	1-123-333-00	CAP, ELECT 100 20% 25V
C33	8	1-162-179-11	CAP, CERAMIC 0.1 50V				
C34	8	1-123-333-00	CAP, ELECT 100 20% 25V	C213	8	1-162-179-11	CAP, CERAMIC 0.1 50V
C35	8	1-123-333-00	CAP, ELECT 100 20% 25V	C214	8	1-123-333-00	CAP, ELECT 100 20% 25V
			•	C215	8	1-101-880-00	CAP, CERAMIC 47P 5% 50V
C36	8	1-162-179-11	CAP, CERAMIC 0.1 50V	C217	8	1-162-179-11	CAP, CERAMIC 0.1 50V
C37	8	1-162-179-11	CAP, CERAMIC 0.1 50V				CAR WENCE 100 00% 05%
C38	8	1-123-333-00	CAP, ELECT 100 20% 25V	C218	8	1-123-333-00	CAP, ELECT 100 20% 25V
to 48	3			C219	8	1-162-179-11	CAP, CERAMIC 0.1 50V CAP, ELECT 100 20% 25V
			100 00% 05#	C220	8	1-123-333-00 1-104-233-00	
C45	8	1-123-333-00	CAP, ELECT 100 20% 25V	C221 C222	8	1-102-959-00	CAP, CERAMIC 22P 5% 50V
C46	8	1-123-333-00	CAP, ELECT 100 20% 25V	6222	8	1-102-333-00	CAI, CERAMIC 221 34 301
C47	8	1-123-333-00	CAP, ELECT 100 20% 25V CAP, ELECT 100 20% 25V	C223	8	1-162-179-11	CAP, CERAMIC 0.1 50V
C48	8	1-123-333-00	CAP, ELECT 100 20% 25V CAP, CERAMIC 0.1 50V	C224	8	1-123-332-00	CAP, ELECT 47 20% 25V
C101	В	1-162-179-11	CAF, GERAPIC V.1 30V	C225	8	1-162-179-11	CAP, CERAMIC 0.1 50V
C102	8	1-123-333-00	CAP, ELECT 100 20% 25V	C226	8	1-123-332-00	CAP, ELECT 47 20% 25V
C102	8	1-162-179-11	CAP, CERAMIC 0.1 50V	C227	8	1-124-631-11	CAP, ELECT NONPOLAR
C104	8	1-123-333-00	CAP, ELECT 100 20% 25V				47 20% 16V
C105	8	1-130-479-00	CAP, FILM 4700P 5% 50V				
				C228	8	1-162-179-11	CAP, CERAMIC 0.1 50V
C106	8	1-162-179-11	CAP, CERAMIC 0.1 50V	C229	8	1-123-332-00	CAP, ELECT 47 20% 25V
				C230	8	1-136-170-00	CAP, METAL 0.27 5% 50V CAP, METAL 0.27 5% 50V
C107	8	1-123-333-00		C231 C232	8 8	1-136-170-00 1-123-332-00	CAP, METAL 0.27 5% 50V CAP, ELECT 47 20% 25V
C108	8	1-101-880-00	CAP, CERAMIC 47P 5% 50V	0232	•	1-125-552-00	ORI, IDDOI 47 LOW 257
C109	8	1-162-179-11	CAP, CERAMIC 0.1 50V CAP, ELECT 100 20% 25V	C233	8	1-123-332-00	CAP, ELECT 47 20% 25V
C110	8	1-123-333-00		C234	8	1-162-179-11	CAP, CERAMIC 0.1 50V
C111	8	1-162-179-11	ORI, OBIGRATO U.I. SUV	C235	8	1-102-959-00	CAP, CERAMIC 22P 5% 50V
C112	8	1-123-333-00	CAP, ELECT 100 20% 25V	C301	8	1-162-179-11	CAP, CERAMIC 0.1 50V
C112	8	1-162-179-11	CAP, CERAMIC 0.1 50V	C302	8	1-123-333-00	CAP, ELECT 100 20% 25V
C114	8	1-123-333-00	CAP, ELECT 100 20% 25V				
C115	8		CAP, CERAMIC 47P 5% 50V		8	1-162-179-11	CAP, CERAMIC 0.1 50V
C117	8	1-162-179-11	CAP, CERAMIC 0.1 50V	C304	8	1-123-333-00	
				C305	8	1-162-179-11	
C118	8	1-123-333-00		C306	8	1-123-332-00	
C119	8	1-162-179-11		C307	8	1-162-179-11	CAP, CERAMIC 0.1 50V
C120	8	1-123-333-00	CAP, ELECT 100 20% 25V	C300		1-123-332-00	CAP, ELECT 47 20% 25V
C121	8	1-104-233-00		C308 C309	8 8	1-130-479-00	
C122	8	1-102-959-00	CAP, CERAMIC 22P 5% 50V	C310	8	1-162-179-11	
				C311	6	1-162-179-11	
C123	8	1-162-179-11		C312	8	1-123-333-00	
C124	8	1-123-332-00			-		,
C125	8	1-162-179-11					
C126	8	1-123-332-00	CAP, ELECT 47 20% 25V CAP, ELECT NONPOLAR				
C127	8	1-174-031-11	47 20% 16V				
			-// LUA 101				

 $^{{\}tt NOTE}$: Please see pages D-21 for the part numbers of capacitors and resistors that are not listed in the parts list.

Ref.								Ref.			
No.	SP	Parts No.	Deact	ription				No.	SP	Parts No.	Description
NO.	31	Tarts No.	2000								•
C313	8	1-162-179-11	CAP.	CERAMIC	0.1		50V	D1	8	8-719-812-43	DIODE TLG124A
	8	1-123-333-00		ELECT	100	20%	25V	D2	8	8-719-812-43	DIODE TLG124A
C314		1-162-179-11		CERAMIC			50 V		-	•	
C315	8					20%	25V	IC101		8-759-905-34	TC NESSAAN
C316	8	1-123-332-00		CERAMIC			50 V	IC102		8-759-900-72	
C317	8	1-162-179-11	CAF,	CERAFIIC	0.1		,,,,	IC103	8	8-759-900-72	
							0511				
C318	8	1-123-332-00			47	20%	25V	IC104		8-759-938-47	IC HA1-5320-5
C319	8	1-102-959-00	-	CERAMIC		5%	50 V	1C105	8	8-759-933-91	IC PCM75KG
C320	8	1-101-880-00		CERAMIC		5%	50 V			0 750 005 07	
C321	8	1-162-179-11		CERAMIC			50 V	IC201	8	8-759-905-34	
C322	8	1-123-333-00	CAP,	ELECT	100	20%	25V	IC202	8	8-759-900-72	IC NE5532P
								IC203	8	8-759-900-72	IC NE5532P
C323	8	1-162-179-11	CAP,	CERAMIC	0.1		50 V		8	8-759-938-47	
C324	8	1-123-333-00	CAP,	ELECT	100	20%	25 V	IC205	8	8-759-933-91	IC PCM75KG
C325	8	1-104-232-00	CAP,	STYROL	150P	5%	125V				
C326	8	1-162-179-11	CAP,	CERAMIC	0.1		50 V	IC301	8	8-759-900-72	IC NE5532P
C327	8	1-123-332-00	CAP,	ELECT	47	20%	25V	IC302	8	8-759-900-72	IC NE5532P
								IC303	8	8-759-905-34	IC NE5534AN
C328	8	1-162-179-11	CAP,	CERAMIC	0.1		50 V	IC304	8	8-759-925-04	IC LF356N
C329	8	1-123-332-00	-	ELECT	47	20%	25V	IC305	8	8-759-040-53	IC MC14053BCP
C330	8	1-162-179-11		CERAMIC			50 V				
C331	8	1-123-333-00		ELECT	100	20%	25V	IC306	8	8-759-942-43	IC PCM56P-K
C332	8	1-162-179-11		CERAMIC			50 V	IC401	8	8-759-900-72	
0332	•	1-102-177 11	, o	ODMINIT O	•••			IC402		8-759-900-72	
0000		1 102 222 00	CAR	ייים עם דעם	100	20%	25V	IC403	8	8-759-905-34	IC NE5534AN
C333	8	1-123-333-00		ELECT		20%	50V	IC404	8	8-759-925-04	IC LF356N
C401	8	1-162-179-11		CERAMIC		204		20404	•	0 / 57 /25 04	10 21 33011
C402	8	1-123-333-00	^		100	20%	25V	IC405	8	8-759-040-53	IC MC14053BCP
C403	8	1-162-179-11		CERAMIC		008	50 V	1C406		8-759-942-43	IC PCM56P-K
C404	8	1-123-333-00	CAP,	ELECT	100	20%	25V	10400	8	0-733-342-43	IC PCMJOP-K
								TCAS	_	8-759-921-03	TO CYDIO27B
C405	8	1-162-179-11		CERAMIC			50 V	ICA2	8		IC CXD1027P
C406	8	1-123-332-00		ELECT	47	20%	25V	ICA4	8	8-759-001-16	IC MC10116L
C407	8	1-162-179-11		CERAMIC	0.1		50 V	ICA5	8		IC TC74HC166P
C408	8	1-123-332-00	CAP,	ELECT	47	20%	25V	ICA7	8	8-759-203-52	
C409	8	1-130-479-00	CAP,	FILM	47001	P 5%	50 V	ICA8	8	8-759-202-74	IC TC74HC04P
C410	8	1+162-179-11	CAP,	CERAMIC	0.1		50 V	ICA10	8	8-759-000-99	IC MC74HC74N
C411	8	1-162-179-11	CAP,	CERAMIC	0.1		50 V	ICA11	8	8-759-000-99	IC MC74HC74N
C412	8	1-123-333-00		ELECT	100	20%	25V	ICA12	8	8-759-000-99	IC MC74HC74N
C413	8	1-162-179-11		CERAMIC	0.1		50 V				
C414	8	1-123-333-00	CAP,	ELECT	100	20%	25V	ICB4	8	8-759-926-32	IC AM26LS32PC
	_		-					ICB5	8	8-759-202-98	IC TC74HC166P
C415	8	1-162-179-11	CAP,	CERAMIC	0.1		50 V	ICB7	8	8-759-203-52	IC TC74HC595P
C416	8	1-123-332-00		ELECT	47	20%	25V	ICB8	8	8-759-921-03	IC CXD1027P
C417	8	1-162-179-11		CERAMIC			50 V	ICB11	8	8-759-202-14	IC TC74HC08P
C418	8	1-123-332-00		ELECT	47	20%	25V				
C419	8	1-102-959-00		CERAMIC		5%	50 V	ICB12	8	8-759-202-11	IC TC74HC00P
	•		,					ICB13	8	8-759-202-74	IC TC74HC04P
C420		1-101-880-00	CAP	CERAMIC	47 P	5%	50 V				
C421	8	1-162-179-11		CERAMIC		3.4	50 V	ICC2	8	8-759-912-53	IC CX23034
C422		1-123-333-00		ELECT	100	20%	25V	ICC8	В		IC MC74HC174N
C423	8	1-162-179-11		CERAMIC		20%	50 V	ICC9	8	8-759-001-42	
C423	8	1-123-333-00		ELECT	100	20%	25V		8		IC TBP28L42N-DAD-C10
0424	8	1-123-333-00	oni,	BLEOI	100	20%	2),		8		IC MC74HC163N
01.05		1 104 122 00	CAD	OTVD OT	1500	57	1257		-		20 000, 0000000
C425	8	1-104-232-00	CAP,	CEDINTO	1 70%	J &		ICC12	8	8-759-001-38	IC MC74HC163N
C426	6	1-162-179-11				20*	50 V	ICC13	8	8-759-004-63	IC MC74HC105N
C427	6	1-123-332-00			47	20%		10013	-	J 137 007 03	1101 THO123N
C428	8	1-162-179-11		CERAMIC		000	50 V	ICD2	8	8-759-700-51	IC NJM7850A
C429	8	1-123-332-00	CAP,	ELECT	47	20%	25V	ICD4	8	8-759-700-31	IC NJM7905A
			- · -				•	ICD5		8-759-202-98	IC TC74HC166P
C430	8	1-162-179-11		CERAMIC			50 V		8	8-759-202-98	IC TC74HC166P
C431	8	1-123-333-00		ELECT	100	20%	25V	ICD7	8		
C432	8	1-162-179-11		CERAMIC			50 V	ICD9	8	8-759-202-98	IC TC74HC166P
C433	8	1-123-333-00	CAP,	ELECT	100	20%	25V	ICD11	8	0-137-202-98	IC TC74HC166P

				D. f			
Ref.	SP	Parts No.	Description	Ref. No.	SP	Parts No.	Description
No.	ər	raits No.	Description.		٠.	rares no.	Description
Ll	8	1-409-309-00	COIL, SN 72	R217	8	1-214-762-00	RES, METAL 24K 1% 1/4W
L2	8	1-409-309-00	COIL, SN 72	R218	8	1-214-762-00	RES, METAL 24K 1% 1/4W
L3	8	1-409-339-00	COIL, SN	R219	8	1-214-971-00	RES, METAL 2M 17 1/4W
L101	8	1-535-178-00	RES, FERRITE	R301	8	1-214-681-00	RES, METAL 10 17 1/4W
L201	8	1-535-178-00	RES, FERRITE	R302	8	1-214-681-00	RES, METAL 10 17 1/4W
Q101	8	8-729-800-44	TRANSISTOR 2SK152-4	R303	8	1-214-753-00	RES, METAL 10K 17 1/4W
Q102	8	8-729-993-72	TRANSISTOR 2SA937	R304	8	1-214-753-00	RES, METAL 10K 1% 1/4W
Q201	8	8-729-800-44	TRANSISTOR 2SK152-4	R305 R306	8 8	1-214-760-00 1-214-757-00	RES, METAL 20K 1% 1/4W RES, METAL 15K 1% 1/4W
Q202 Q301	8	8-729-993-72 8-729-800-44	TRANSISTOR 2SA937 TRANSISTOR 2SK152-4	R307	8	1-214-757-00	RES, METAL 15K 1% 1/4W
100	8	0-729-000 44	IRANDIDIOR EDRIJE 4		-	1 11 137 00	130 17 17
Q302	8	8-729-993-72	TRANSISTOR 2SA937	R308	8	1-214-712-00	RES, METAL 200 1% 1/4W
Q401	8	8-729-800-44	TRANSISTOR 2SK152-4	R309	8	1-214-740-00	RES, METAL 3K 1% 1/4W
Q402	8	8-729-993-72	TRANSISTOR 2SA937	R310	8	1-214-971-00	RES, METAL 2M 17 1/4W
•				R311	8	1-214-757-00	RES, METAL 15K 1% 1/4W
R101	8	1-214-760-00	RES, METAL 20K 1% 1/4W	R312	8	1-214-757-00	RES, METAL 15K 1% 1/4W
R102	8	1-214-760-00	RES, METAL 20K 1% 1/4W				
R103	8	1-214-753-00	RES, METAL 10K 1% 1/4W	R313	8	1-215-431-00	RES, METAL 2.7K 1% 1/6W
R104	8	1-214-753-00	RES, METAL 10K 17 1/4W	R314	8	1-215-432-00	RES, METAL 3K 1% 1/6W
R105	8	1-214-736-00	RES, METAL 2K 1% 1/4W	R315	8	1-215-421-00	RES, METAL 1K 1% 1/6W
				R316	8	1-214-757-00	RES, METAL 15K 1% 1/4W
R106	8	1-214-761-00	RES, METAL 22K 1% 1/4W	R317	8	1-214-761-00	RES, METAL 22K 1% 1/4W
R107	8	1-214-757-00	RES, METAL 15K 17 1/4W	2210	_	121474100	DEC MEMAY 2 28 19 1//11
R108	8	1-214-757-00	RES, METAL 15K 1% 1/4W	R318 R319	8	1-214-741-00 1-214-745-00	RES, METAL 3.3K 1% 1/4W RES, METAL 4.7K 1% 1/4W
R109	8	1-214-740-00	RES, METAL 3K 17 1/4W	R320	8 8	1-214-969-00	RES, METAL 1.6M 1% 1/4W
R110	8	1-214-712-00	RES, METAL 200 1% 1/4W	R401	8	1-214-681-00	RES, METAL 10 17 1/4W
R111	g	1-214-762-00	RES, METAL 24K 1% 1/4W	R402	8	1-214-681-00	RES, METAL 10 1% 1/4W
R112	8	1-214-753-00	RES, METAL 10K 1% 1/4W		-		,
R113	8	1-215-431-00	RES, METAL 2.7K 1% 1/6W	R403	8	1-214-753-00	RES, METAL 10K 17 1/4W
R114	8	1-215-432-00	RES, METAL 3K 12 1/6W	R404	8	1-214-753-00	RES, METAL 10K 1% 1/4W
R115	8	1-215-413-00	RES, METAL 470 1% 1/6W	R405	8	1-214-760-00	RES, METAL 20K 17 1/4W
				R406	8	1-214-757-00	RES, METAL 15K 1% 1/4W
R116	8	1-214-746-00	RES, METAL 5.1K 1% 1/4W	R407	8	1-214-757-00	RES, METAL 15K 1% 1/4W
R117	8	1-214-762-00	RES, METAL 24K 1% 1/4W				
R118	8	1-214-762-00	RES, METAL 24K 17 1/4W	R408	8	1-214-712-00	RES, METAL 200 17 1/4W
R119	8	1-214-971-00	RES, METAL 2M 17 1/4W	R409	8	1-214-740-00	RES, METAL 3K 1% 1/4W
R201	8	1-214-760-00	RES, METAL 20K 1% 1/4W	R410	8	1-214-971-00	RES, METAL 2M 1% 1/4W
			PRO 100017 007 18 1/47	R411	8	1-214-757-00	RES, METAL 15K 1% 1/4W
R202	8	1-214-760-00	RES, METAL 20K 1% 1/4W	R412	8	1-214-757-00	RES, METAL 15K 1% 1/4W
R203	8	1-214-753-00 1-214-753-00	RES, METAL 10K 1% 1/4W RES, METAL 10K 1% 1/4W	R413		1-215-431-00	DEC MEMAT 2 79 19 1/61
R204 R205	8 8	1-214-736-00	RES, METAL 2K 17 1/4W	R414	8 8	1-215-431-00	RES, METAL 2.7K 1% 1/6W RES, METAL 3K 1% 1/6W
R206	8	1-214-761-00	RES, METAL 22K 17 1/4W	R415	8	1-215-421-00	RES, METAL 1K 17 1/6W
1400	•	1 11 701 00	,	R416	8	1-214-757-00	RES, METAL 15K 12 1/4W
R207	8	1-214-757-00	RES, METAL 15K 1% 1/4W	R417	8	1-214-761-00	RES, METAL 22K 17 1/4W
R208	8	1-214-757-00	RES, METAL 15K 1% 1/4W				
R209	8	1-214-740-00	RES, METAL 3K 1% 1/4W	R418	8	1-214-741-00	RES, METAL 3.3K 1% 1/4W
R210	8	1-214-712-00	RES, METAL 200 1% 1/4W	R419	8	1-214-745-00	RES, METAL 4.7K 1% 1/4W
R211	8	1-214-762-00	RES, METAL 24K 1% 1/4W	R420	8	1-214-969-00	RES, METAL 1.6M 1% 1/4W
2010		1 21/ 752 00	DEC METAT 10F 17 1//U				
R212	8	1-214-753-00 1-215-431-00	RES, METAL 10K 1% 1/4W RES, METAL 2.7K 1% 1/6W	RB1	8	1-231-549-11	BLOCK, RESISTOR 47Kx4
R213	8	1-215-431-00	RES, METAL 3K 17 1/6W	RB2	8	1-231-549-11	BLOCK, RESISTOR 47Kx4
R214	8	1-215-413-00	RES, METAL 470 17 1/6W	RB3	8	1-235-005-00	RESISTOR BLOCK 47K
R215 R216	8 8	1-214-746-00	RES, METAL 5.1K 1% 1/4W	RB4	8	1-235-005-00	RESISTOR BLOCK 47K
EL 10	•		•	DW101		1_228_520_00	DEC ADT GERMEN 1000
				RV101 RV201	8 8	1-228-530-00 1-228-530-00	RES, ADJ, CERMET 100K RES, ADJ, CERMET 100K
				X1201		1 220 730-00	ALU, ALU, CERREI IUUR
				SW1	8	1-553-441-00	SWITCH, TOGGLE
				SW2	8	1-553-441-00	SWITCH, TOGGLE
				SW3	8	1-553-925-00	SWITCH, ROTARY
				SW4	8	1-553-925-00	SWITCH, ROTARY
							-

Ref.	en.	Danks Na	D				Ref. No.	QЪ	Parts No.	Description			
NO.	or	Parts No.	ревс	ription			no.		14115 401	Description			
DET-4			cover	DWD DOD DE	2 m 2		C801	8	1-102-074-00				
- (Thin	0	A-7850-511-A bly includes					C802 C803	8 8	1-102-113-00 1-161-485-00	•		10%	
(11112	a 555	ibiy included		riowing pu	,		C804	8	1-161-485-00				50V 50V
-	8	2-832-007-00				IG	C805	8	1-102-113-00			10%	
-	8	3-703-207-11 7-628-254-40					0006	_	1 100 110 00	01D 00011070			
-	8	7-626-234-40	SCRE	TION 2.UX.	12		C806 C807	8 8	1-102-110-00 1-161-485-00	•		10%	50 V
C101	8	1-102-074-00					to 81			, <i></i>			301
C102	8	1-102-113-00											
C103 C104	8 8	1-161-485-00 1-161-485-00				50 V 50 V	C900 C901	8 8	1-161-900-11 1-102-119-00			109	50V
C105	8	1-102-113-00					C902	8	1-161-485-00			104	50 V
					on 101		C903	8	1-161-900-11	CAP, CERAMIC	1		50 V
C106 C107	8 8	1-102-110-00 1-161-485-00		CERAMIC 220		50V	C904	8	1-102-113-00	CAP, CERAMIC	390P	10%	50 V
to 11		1-101-405 00	oni,	ODMINIC OF	•	501	C905	8	1-161-485-00	CAP, CERAMIC	0 1		50 V
							C906	8	1-161-900-11	•			50 V
C201	8	1-102-074-00					C907	8	1-161-485-00				50 V
C202 C203	8 8	1-102-113-00 1-161-485-00				50V	C950		1-161-900-11	CAP, CERAMIC	1		50 V
C204	8	1-161-485-00				50 V	to 95	, ,					
C205	8	1-102-113-00	CAP,	CERAMIC 39	OP 10	50 V	C956	8	1-124-126-00	CAP, ELECT	47	20%	25V
0206	_	1 10211000	CAD	CEDANTO 22	ΛD 1Λ'	507	C957	8	1-124-126-00	•	47	20%	25V
C206 C207	8 8	1-102-110-00 1-161-485-00				50V	C958 C959	8 8	1-161-485-00 1-124-126-00		0.1 47	20.7	50∇ 25∇
to 21		1 101 103 11	,		_		C960	8	1-124-126-00		47		25V 25V
										•			
C301 C302	8 8	1-102-074-00 1-102-113-00					D3 D101	8	8-719-911-19 8-719-911-19				
C303	6	1-161-485-00				507	D101	8 8	8-719-911-19				
C304	8	1-161-485-00				507	D201	8	8-719-911-19				
C305	8	1-102-113-00	CAP,	CERAMIC 39	OP 10	\$ 50₹	D202	8	8-719-911-19	DIODE 188119			
C306	8	1-102-110-00	CAP,	CERAMIC 22	OP 10	50 V	D301	8	8-719-911-19	DIODE 188119			
C307	8	1-161-485-00				50₹	D302	8	8-719-911-19				
to 31	ΙO						D401	8	8-719-911-19				
C401	В	1-102-074-00	CAP.	CERAMIC O.	001 10	K 50V	D402	8	8-719-911-19				
C402	8	1-102-113-00					D501	8	8-719-911-19	DIONE 199119			
C403	8	1-161-485-00		CERAMIC 0.		507	D502	8	8-719-911-19	DIODE 1SS119			
C404 C405	8	1-161-485-00 1-102-113-00		CERAMIC 0.		507 507	D601	9	8-719-911-19				
0403	8	1-102-115-00	oai,	OERAHIO 37	01 10.	. 501	D602 D701	8 8	8-719-911-19 8-719-911-19				
C406	6	1-102-110-00		CERAMIC 22			D702	8	8-719-911-19				
C407	8	1-161-485-00	CAP,	CERAMIC 0.	1	50 V							
to 41	. 0						D801 D802	8 8	8-719-911-19	DIODE 188119			
C501	8	1-102-074-00	CAP,	CERAMIC 0.0	001 102	507	0002	•	8-719-911-19	DIODE 19911A			
C502	8	1-102-113-00					IC4	8	8-759-700-05	IC NJM20438-E)		
C503 C504	8	1-161-485-00 1-161-485-00		CERAMIC 0.		50 V 50 V	105	8	8-759-131-11				
C505	8						IC6 IC7	8 8	8-759-700-51 8-759-700-06	IC NJM/805A IC NJM7812B			
							IC8	8	8-759-179-12	IC UPC7912H			
C506 C507	8 8	1-102-110-00 1-161-485-00				507 507	*****						
to 51		1-101-405-00	oni,	OLIMITO U.	•	501	IC101 IC102	8 8	1-807-920-11 1-807-919-11	IC REPOR			
							IC102	8	8-759-131-11				
C601	8	1-102-074-00					IC201	8	1-807-920-11	IC REPOR			
C602 C603	6 8	1-102-113-00 1-161-485-00				507	IC202	8	1-807-919-11	IC NREP			
C604	8	1-161-485-00				50V	IC203	8	8-759-131-11	IC UPC311C			
C605	8	1-102-113-00	CAP,	CERAMIC 390	OP 10%	50V	IC301			IC REPOR			
C606	_	1_102_110_00	CAD	CODANTC 220	ND 109	5017	1C302	8	1-807-919-11	IC NREP			
C607	8 8	1-102-110-00 1-161-485-00				507	IC303 IC401	8 8	8-759-131-11 1-807-920-11	IC UPC311C IC REPOR			
to 61			•				101	-	_ 55. ,20 11				
C701	_	1-102-074-00	CAP	CERAMIC O C	001 105	5017	IC402			IC NREP			
C702	8 8	1-102-074-00					IC403 IC501	8 8		IC UPC311C IC REPOR			
C703	8	1-161-485-00	CAP,	CERAMIC 0.1	l	50 V	1C502	8		IC NREP			
C704	8	1-161-485-00				50V	10503			IC UPC311C			
C705	8	1-102-113-00	uar,	CERAMIC 390) E 10%	. 507	1C601	e	1-807-920-11	TC BEPOP			
C706	8	1-102-110-00					IC602			IC NREP			
C707	. 8	1-161-485-00	CAP,	CERAMIC 0.1	l	50 V	IC603	8	8-759-131-11	IC UPC311C			
to 71	U						IC701			IC REPOR			
							IC702	8	1-807-919-11	IC NREP			

*							
Ref.				Ref.			
No.	SP	Parts No.	Description	No.	SP	Parts No.	Description
IC703	8	8-759-131-11	IC UPC311C	RV402	8	1-228-530-00	RES, ADJ, CERMET 100K
IC801	8	1-807-920-11	IC REPOR	RV403	8	1-230-844-11	RES, ADJ, METAL 20K
IC802	8	1-807-919-11	IC NREP	RV404	8	1-228-530-00	RES, ADJ, CERMET 100K
IC803	8	8-759-131-11	IC UPC311C	RV501	8	1-230-845-11	RES, ADJ, METAL 50K
10005	•	•		RV502		1-228-530-00	RES, ADJ, CERMET 100K
Q3	8	8-729-364-72	TRANSISTOR 2SB647				
Q4	8	8-729-201-52	TRANSISTOR 2SA1015-GR	RV503	8	1-230-844-11	RES, ADJ, METAL 20K
Q5	8	8-729-201-52	TRANSISTOR 2SA1015-GR	RV504		1-228-530-00	RES, ADJ, CERMET 100K
Q101		8-729-203-04	TRANSISTOR 2SK3OA-GR	RV601		1-230-845-11	RES, ADJ, METAL 50K
	8	8-729-203-04	TRANSISTOR 25K30A-GR	RV602		1-228-530-00	RES, ADJ, CERMET 100K
Q102	8	0-723-203-04	IRANDISION ZERSON ON	RV603		1-230-844-11	RES, ADJ, METAL 20K
0201	_	0_720_203_0/	TRANSISTOR 2SK30A-GR		_		,,
Q201	8	8-729-203-04	TRANSISTOR 25K3OA-GR	RV604	8	1-228-530-00	RES, ADJ, CERMET 100K
Q202	8	8-729-203-04		RV701		1-230-845-11	RES, ADJ, METAL 50K
Q301	8	8-729-203-04	TRANSISTOR 2SK3OA-GR TRANSISTOR 2SK3OA-GR	RV702		1-228-530-00	RES, ADJ, CERMET 100K
Q302	8	8-729-203-04		RV702		1-230-844-11	RES, ADJ, METAL 20K
Q401	8	8-729-203-04	TRANSISTOR 2SK3OA-GR	RV703			
		/		84704	8	1-228-530-00	RES, ADJ, CERMET 100K
Q402	8	8-729-203-04	TRANSISTOR 28K30A-GR	BTZOOS	_	1 020 0/5 11	770 ID 107 10017 FAT
Q501	8	8-729-203-04		RV801		1-230-845-11	•
Q502	8	8-729-203-04		RV802		1-228-530-00	RES, ADJ, CERMET 100K
Q601	8	8-729-203-04		RV803		1-230-844-11	
Q602	8	8-729-203-04	TRANSISTOR 2SK3OA-GR	RV804	. 8	1-228-530-00	RES, ADJ, CERMET 100K
Q701	8	8-729-203-04		n			
Q702	8	8-729-203-04	TRANSISTOR 2SK3OA-GR	DIO-2			
Q801	8	8-729-203-04	TRANSISTOR 2SK3OA-GR	-	0		COMPLETE PCB, DIO-2
Q802	8	8-729-203-04	TRANSISTOR 2SK30A-GR	(This	asse	mbly includes	the following parts.)
•				-	8	1-561-832-00	SOCKET, SHORT
R104	8	1-247-849-00	RES, CARBON 5.6K 5% 1/4W				
R106	8	1-247-854-00	RES, CARBON 9.1K 5% 1/4W	-	8	2-251-622-11	LEVER, PC BOARD
R109	8	1-247-849-00	RES, CARBON 5.6K 5% 1/4W				• -
R204	8	1-247-849-00		C1	8	1-124-479-11	CAP, ELECT 330 20% 25V
R206	8	1-247-854-00	RES, CARBON 9.1K 5% 1/4W	C2	8	1-124-479-11	
K200		1 247 054 00	ALD, CLARON FILM DA -,	C3	8	1-162-179-11	CAP, CERAMIC 0.1 50V
2000	_	1-247-849-00	RES, CARBON 5.6K 5% 1/4W	C5	8	1-162-179-11	CAP, CERAMIC 0.1 50V
R209	8			C7	8	1-162-179-11	CAP, CERAMIC 0.1 50V
R304	8	1-247-849-00		٠.	-	,	oni, ommitto 0,1
R306	8	1-247-854-00		C8	8	1-103-721-00	CAP, STYROL 680P 5% 50V
R309	8	1-247-849-00		C10		1-103-741-00	
R404	8	1-247-849-00	RES, CARBON 5.6K 5% 1/4W	C11	8	1-162-179-11	CAP, STYROL 0.0047 5% 50V
				C12	8		CAP, CERAMIC 0.1 50V
R406	8	1-247-854-00			8	1-124-478-11	CAP, ELECT 100 20% 25V
R409	8	1-247-849-00		C13	8	1-124-478-11	CAP, ELECT 100 20% 25V
R504	8	1-247-849-00		a1 (1 100 110 00	01D 00011070 0000 109 500
R506	8	1-247-854-00	RES, CARBON 9.1K 5% 1/4W	C14	8	1-102-110-00	CAP, CERAMIC 220P 10% 50V
R509	8	1-247-849-00	RES, CARBON 5.6K 5% 1/4W	C15	8	1-162-179-11	CAP, CERAMIC 0.1 50V
				C16	8	1-103-745-00	CAP, STYROL 0.0068 5% 50V
R604	8	1-247-849-00		C17	8	1-124-478-11	CAP, ELECT 100 20% 25V
R606	8	1-247-854-00		C18	8	1-162-179-11	CAP, CERAMIC 0.1 50V
R609	8	1-247-849-00					
R704	8	1-247-849-00		C19	8	1-103-735-00	CAP, STYROL 0.0027 5% 50V
R706	8	1-247-854-00	RES, CARBON 9.1K 5% 1/4W	C20	8	1-107-077-00	CAP, MICA 47P 5% 50V
				C21	8	1-162-179-11	CAP, CERAMIC 0.1 50V
R709	8	1-247-849-00	RES, CARBON 5.6K 5% 1/4W	C22	8	1-124-478-11	CAP, ELECT 100 20% 25V
R804	8	1-247-849-00	RES, CARBON 5.6K 5% 1/4W	C23	8	1-162-179-11	CAP, CERAMIC 0.1 50V
R806	8	1-247-854-00	RES, CARBON 9.1K 5% 1/4W				
R809	8		RES, CARBON 5.6K 5% 1/4W	C24	S	1-136-169-00	CAP, METAL FILM 0.22
R913	8	1-215-454-00	RES, METAL 24K 17 1/6W	C25	S	1-136-169-00	CAP, METAL FILM 0.22
	-			C26	8	1-102-963-00	CAP, CERAMIC 33P 5% 50V
R954	8	1-247-849-00	RES, CARBON 5.6K 5% 1/4W	C27	8	1-102-963-00	CAP, CERAMIC 33P 5% 50V
R957	8	1-247-849-00		C28	8	1-102-959-00	CAP, CERAMIC 22P 5% 50V
	-		•				
RL1	8	1-515-660-11	RELAY	C29	8	1-102-959-00	CAP, CERAMIC 22P 5% 50V
	•			C30	8	1-102-963-00	CAP, CERAMIC 33P 5% 50V
RV5	8	1-230-845-11	RES, ADJ, METAL 50K	C31	8	1-102-963-00	CAP, CERAMIC 33P 5% 50V
RV6	8	1-230-841-11		C32	8	1-102-106-00	CAP, CERAMIC 100P 10% 50V
RV101		1-230-845-11	RES, ADJ, METAL 50K	C33	8	1-102-106-00	CAP, CERAMIC 100P 10% 50V
RV101		1-228-530-00			-		
RV102		1-230-844-11	RES, ADJ, METAL 20K	C34	8	1-103-711-00	CAP, STYROL 270P 5% 50V
EATO2	•	. 230 077 11	,,	C37	8	1-123-622-00	CAP, ELECT 22 20% 16V
Dv1 / /	_	1-228-530-00	RES, ADJ, CERMET 100K	C38	8	1-124-479-11	CAP, ELECT 330 20% 25V
RV104			RES, ADJ, METAL 50K	C40	8	1-162-179-11	CAP, CERAMIC 0.1 50V
RV201		1-230-845-11				1-136-169-00	CAP, METAL FILF 0.22
RV202		1-228-530-00		C172,	8	1-130-103-00	Oni, reinu ribr V.22
RV203		1-230-844-11		173			
RV204	8	1-228-530-00	RES, ADJ, CERMET 100K	n i	_	9_710_001_75	DIADE 1998
			DEC AND MEMAY FOR	D1	8	8-719-901-75	
RV301		1-230-845-11		D2	8	8-719-901-75	DIODE 1888
RV302		1-228-530-00		D3	8	8-719-921-20	DIODE 188119TD
Ry303	8	1-230-844-11	RES, ADJ, METAL 20K	D7	. 8	0-/19-812-43	DIODE TLG124A
RV304	8	1-228-530-00	RES, ADJ, CERMET 100K	to 1	U		
RV401	s	1-230-845-11	RES, ADJ, METAL 50K				

Ref.		- · •	Description	Ref.N	o. SP	Parts No.	Description
No.	SP	Parts No.	Description	NO.	ð.	Parts No.	Description
D11	В	8-719-812-44	DIODE TLO124	ICH3	8	8-759-202-97	IC TC74HC165P
D12	8	8-719-100-30	DIODE	ICH4	8	8-759-202-97	IC TC74HC165P
	-	• ,		ICH5	8	8-759-202-98	
DB 1	8	8-759-107-45	IC UPA54HA	ICH6	8	8-759-202-27	IC TC74HC157P
DB 2	6	8-759-107-45	IC UPA54HA	ICH7	8	8-759-202-32	
DB3	8	8-759-107-46	IC UPA64HA				
DB4	8	8-759-107-46	IC UPA64HA	ICH8	6	8-759-000-99	IC MC74HC74N
				ICH9	8	8-759-203-01	IC TC74HC175P
ICAl	8	8-759-203-30	IC TC74HC365P	ICH10	8	8-759-202-32	IC TC74HC163P
to 3				ICH11	8	8-759-202-32	IC TC74HC163P
ICA4	8	8-759-203-50	IC TC74HC574P	ICJI	8	8-759-787-83	IC 27C256A-DIO-J1-V1.0
to 7				ICJ3	8	8-759-004-84	
			IC MC74HC54ON	ICJ4	8	8-759-004-84	
ICA8	6	8-759-007-09	IC MC74HC540N	ICJ5	8	8-759-202-98	
ICA9	8	8-759-007-09	10 MG/4MG)40N	ICJ6	8	8-759-202-74	IC TC74HC04P
ICB3		8-759-203-32	IC TC74HC366P	ICJ7	_	P_750_20210	70 M07/W000D
ICB3	8 8	8-759-203-52	IC TC74HC595P	ICJ8	8	8-759-202-18 8-759-203-50	IC TC74HC2OP
ICB5	8	8-759-203-52	IC TC74HC595P	ICJ9	8	8-759-776-34	IC TC74HC574P IC TBP28L42N-DIO-J9
ICB6	8	8-759-203-52	IC TC74HC595P	ICIIO	8	8-759-202-32	
ICB7	8	8-759-000-99	IC MC74HC74N	ICJ11	8	8-759-202-32	
	-	• 100 111			-	0 /3/ 202 32	10 10,4101051
ICB8	8	8-759-203-30	IC TC74HC365P	ICK1	8	8-759-202-32	IC TC74HC163P
ICB9	8	8-759-202-24	IC TC74HC86P	ICK2	8	8-759-202-32	IC TC74HC163P
ICB10	8	8-759-008-57	IC MC34051P	ICK3	8	8-759-202-98	IC TC74HC166P
ICB11	8	8-759-951-24	IC SN75124N	ICK4	8	8-759-933-44	
				ICK5	8	8-759-933-44	IC PLS159N-001
ICC1	8	8-759-900-61	IC LM361N				
ICC3	8	8-759-203-60	IC TC74HC670P	ICK6	8	8-759-001-42	IC MC74HC174N
1CC4	8	8-759-203-60	IC TC74HC670P	ICK7	8	8-759-778-67	IC TBP28L42N-DIO-K7
ICC5	8	8-759-203-52	IC TC74HC595P	ICK8	8	8-759-946-36	IC SN74ALS163BN
ICC6	8	8-759-203-52	IC TC74HC595P	ICK9	8	8-759-946-36	IC SN74ALS163BN
			7.0 ma7/yacash	ICK10	8	8-759-202-86	IC TC74HC123P
ICC7	В	8-759-203-52	IC TC74HC595P	ICK11	8	8-759-202-86	IC TC74HC123P
ICC8	8	8-759-001-39	IC MC74HC164N	ICL1	8	8-759-202-30	IC TC74HC161P
ICC9	8	8-759-202-99	IC TC74HC173P IC TC74HC109P	ICL2	8	8-759-776-69	IC MB7114L-DIO-L2
ICC10 ICC11	5	8-759-202-84 8-759-951-21	IC SN75121N	ICL3	8	8-759-001-42	IC MC74HC174N
10011	8	0-/39-931-21	10 50/31210	ICL4	8	8-759-203-52	IC TC74HC595P
ICD1	8	8-759-202-86	IC TC74HC123P	ICL5	8	8-759-203-52	IC TC74HC595P
ICD2	8	8-759-918-71	IC CX23065				
ICD3	8	8-759-203-60	IC TC74HC670P	ICL6	8	8-759-000-99	IC MC74HC74N
ICD4	8	8-759-203-60	IC TC74HC670P	ICL7	8	8-759-202-14	IC TC74HC08P
ICD5	8	8-759-203-52	IC TC74HC595P	ICL8	8	8-759-000-99	IC MC74HC74N
			70 mo7/mororn	ICL9	8	8-759-202-11	IC TC74HC00P
ICD6	8	8-759-203-52	IC TC74HC595P	ICL10	8	8-759-202-24	IC TC74HC86P
ICD7	8	8-759-203-52	IC TC74HC595P	ICL11	8	8-759-000-99	IC MC74HC74N
ICD8	8	8-759-001-39	IC MC74HC164N IC TC74HC173P	TOVI	_	0 750 202 20	TO MOT/1901/11
ICD9 ICD10	8	8-759-202-99 8-759-202-14	IC TC74HC08P	ICM1 ICM2	8	8-759-202-30 8-759-202-99	IC TC74HC161P IC TC74HC173P
ICD11	8	8-759-202-21	IC TC74HC32P	ICM2	8 8	8-759-202-99	IC TC74HC173P
10011	•	0-/3/-202 21	10 10,480321	ICM4	8	8-759-776-71	IC MB7114L-DIO-M4
ICE1	6	8-759-906-24	IC SN74LS624N	ICM5	8	8-759-776-72	IC MB7114L-DIO-M4
ICE2	6	8-759-203-40	IC TC74HC393P		-		
ICE3	8	8-759-004-84	IC MC74HC597N	ICM6	8	8-759-202-12	IC TC74HC02P
ICE4	8	8-759-004-84	IC MC74HC597N	ICM7	8	8-759-202-14	IC TC74HC08P
ICE5	8	8-759-202-98	IC TC74HC166P	ICM8	8	8-759-778-63	IC MB7112L-DIO-M8
				ICM9	8	8-759-000-99	IC MC74HC74N
ICE6	В	8-759-203-40	IC TC74HC393P	ICM10	8	8-759-202-74	IC TC74HC04P
ICE7	8	8-759-202-74	IC TC74HC04P	ICM11	8	8-759-001-42	IC MC74HC174N
ICE8	8	8-759-202-24	IC TC74HC86P	T		A 750 000 00	************
ICE9	8	8-759-202-74	IC TC74HCO4P	ICN2	8	8-759-000-99	IC MC74HC74N
ICE10	8	8-759-202-98	IC TC74HC166P	ICN3	8	8-759-000-99	IC MC74HC74N
ICE11	8	8-759-000-99	IC MC74HC74N	ICN4 ICN5	8	8-759-202-74 8-759-202-26	IC TC74HC04P IC TC74HC138P
topi		0 750 002 50	TO TOTABOSTAD	ICN5	8	8-759-203-01	IC TC74HC135P
ICF1 ICF3	8	8-759-203-50	IC TC74HC574P IC MC74HC597N	20110	-	0 737 203-01	20 10/4H01/JE
ICF3	8	8-759-004-84 8-759-004-84	IC MC/4HC59/N IC MC74HC59/N	ICN7	8	8-759-202-17	IC TC74HC14P
ICF5	8	8-759-004-84	IC TC74HC166P	ICN8	8	8-759-000-99	IC MC74HC74N
ICF6	9	8-759-202-14	IC TC74HC08P	ICN9	8	8-759-000-99	IC MC74HC74N
	•	0 / / / 202 14		ICN10	8	8-759-001-39	IC MC74HC164N
ICF7	8	8-759-202-32	IC TC74HC163P	ICN11	8	8-759-776-70	IC MB7114L-DIO-N11
ICF8	8	8-759-001-42	IC MC74HC174N				
ICF9	8	8-759-202-11	IC TC74HC00P	Q1	8	8-729-124-08	TRANSISTOR 2SC2408
ICF10	8	8-759-202-74	IC TC74HC04P	Q2	8	8-729-800-44	TRANSISTOR 2SK152-4
ICF11	8	8-759-202-84	IC TC74HC109P				

Ref.					Ref.			
No.	SP	Parts No.	Description		NO.	SP	Parts No.	Description
				****	040	_	1 102 072 00	CAR CERANTO 1000 FF FOU
R3	8		RES, CARBON 2K 5% 1		C49	8		CAP, CERAMIC 100P 52 50V
R14	8		RES, CARBON 1/4W 110		C50	8		CAP, CERAMIC 0.1 50V CAP, CERAMIC 0.1 50V
R33	8		RES, CARBON 220K 5% 1		C51 C52	8		CAP, CERAMIC 0.1 50V CAP, CERAMIC 100P 5% 50V
R34 R38	8		RES, CARBON 220K 5% 1		C53	8		
E) o	8	1-24/-00/-00	RES, CARBON 220K 5% 1	/ 4W	673		1-101-405-00	CAP, CERAMIC 0.1 50V
RB1	8	1-231-385-00	RESISTOR BLOCK 4.7K		C54	8	1-123-333-00	CAP, ELECT 100 20% 25V
RB2	8		RESISTOR BLOCK 4.7K		C55	8		CAP, CERAMIC 0.1 50V
RB3	8		RESISTOR BLOCK 47K		to 59			,
RB4	8		RESISTOR BLOCK 47K					
RB5	8		RESISTOR BLOCK 47K		CN461	0	1-560-361-00	CONNECTOR POST HEADER,
								ILG (8P)
RB6	8	1-231-401-00	RESISTOR BLOCK 470		CN462	0	1-560-176-00	CONNECTOR 2P
RB7	8	1-235-005-00	RESISTOR BLOCK 47K		CN46.3	0	1-560-176-00	CONNECTOR 2P
RB8	8	1-235-005-00	RESISTOR BLOCK 47K		CN 464	0	1-560-358-00	CONNECTOR POST HEADER,
RB9	8	1-231-549-11	RESISTOR BLOCK 47Kx4					ILG (4P)
					CN465	0	1-560-176-00	CONNECTOR 2P
SW1	В		SWITCH, TOGGLE					
SW2	8	1-570-623-11			CN466	0	1-560-356-00	CONNECTOR POST HEADER,
SW3	0	1-570-598-11	SWITCH, DIP					ILG (2P)
					CN467	0	1-560-358-00	CONNECTOR POST HEADER,
							170 00	ILG (4P)
					CN909	0	1-560-178-00	CONNECTOR 6P
					n1	_	0 710 011 10	DYODE 100110
					D1	8	0-/19-911-19	DIODE 188119
					to 9			
					D10	8	8-719-993-72	DIODE H7789
					D10	8		DIODE 188119
					to 1		0-/19-911-19	DIODE 133117
DR-54	BOA	RD				,		
_	0		COMPLETE PCB, DR-54		D16	8	8-719-200-77	DYODE LORSN
(This			the following parts.)		to 2		6-/19-200-//	DIODE TOEZR
•					10 2.	•		
-	8	1-548-100-31	TIMER		ICl	8	8-759-910-83	IC TLO72ACP
-	6	2-832-007-00	BUSHING (K), INSULAT	ING	IC2	8		IC TC74HC86P
-	8	3-703-207-11	INSULATOR, TO-220		IC3	8	8-759-131-11	
	8	7-628-254-40	SCREW +PSW 2.6x12		104	8	8-759-131-11	
					105	8	8-759-990-04	
C1	8	1-161-485-00	CAP, CERAMIC 0.1	50 V	105	•	0 / 57 / 70 04	10 1207 400
C2	8	1-161-485-00	CAP, CERAMIC 0.1	50 V	IC6	8	8-759-202-11	IC TC74HC00P
C4	8	1-161-485-00	CAP, CERAMIC 0.1	50 V	IC7	8	8-759-171-18	
to 7					IC8	8	8-759-990-04	
					109	8	8-759-700-34	
C8	В		CAP, CERAMIC 100P 5%					
C9	8	1-161-485-00	CAP, CERAMIC 0.1	50 V	Ll	8	1-408-242-21	INDUCTOR, MICRO 10M 5%
to l	1							•
					Q1	8	8-729-201-97	TRANSISTOR 2SC3182
C13	. 8	1-161-485-00	CAP, CERAMIC 0.1	50 V	Q2	8	8-729-800-44	TRANSISTOR 2SK152-4
to 1	6				Q3	8	8-729-281-53	TRANSISTOR 2SC1815-GR
^			01 P	50**	Q4	8	8-729-281-53	TRANSISTOR 2SC1815-GR
C17	8		CAP, CERAMIC 100P 5%		Q5	8	8-729-201-53	TRANSISTOR 2SA1015-GR
C18	8		CAP, CERAMIC 0.1	50V				
C19	8		CAP, CERAMIC 0.1	50V		8		TRANSISTOR 2SC1815-GR
C20	8		CAP, CERAMIC 100P 5%		Q7	8	8-729-304-92	
C21	8	1-101-483-00	CAP, CERAMIC 0.1	50 V	Q8	8	8-729-201-53	
to 2	.3				Q9	8	8-729-306-92	
005	_	1_161495_00	CAP, CERAMIC 0.1	50 V	Q10	8	8-729-201-89	TRANSISTOR 2SA1265-0
C25	8	1-101-403-00	omi, cemmito U.1	JV 1	011	_	0 700 001 07	mp and ramon docated
to28	'				Q11	8	8-729-201-97	
C29	В	1-102-973-00	CAP, CERAMIC 100P 5%	50 V	Q1 2	8	8-729-208-82	
C29	8		CAP, CERAMIC 0.1	50 V	Q13	8	8-729-281-53	
C31	8		CAP, CERAMIC 0.1	50 V	Q14	8	8-729-281-53	
C32	6	1-124-509-51			Q15	8	8-729-201-53	TRANSISTOR 2SA1015-GR
C32	8	1-124-509-51			Q16		8-729-281-53	TRANSISTOR 2SC1815-GR
000	-		,		Q17	8 8	8-729-304-92	
C34	8	1-123-333-00	CAP, ELECT 100 20%	25V	Q17 Q18	8	8-729-201-53	
C35	8		CAP, CERAMIC 0.1	50 V	Q19	8	8-729-306-92	
C36	8		CAP, ELECT NONPOLAR		Q20	8	8-729-201-89	
		_	10 20%	35V	4-0	•	J /2/ 201 09	
					Q21	8	8-729-201-97	TRANSISTOR 2SC3182
C37	8	1-161-485-00	CAP, CERAMIC 0.1	50V	Q22	8	8-729-208-82	
to 4	4				Q23	8	8-729-281-53	
					Q24	8	8-729-281-53	
C45	8	1-123-333-00			Q25	8	8-729-201-53	
C46	8	1-161-485-00	CAP, CERAMIC 0.1	50 V	•	-		
to 4	8							

n.f				Ref.			
Ref. No.	SP	Parts No.	Description	No.	SP	Parts No.	Description
	8	8-729-281-53	TRANSISTOR 2SC1815-GR	101	8	8-759-202-91	IC TC74HC148P
Q26 Q27	8	8-729-201-33	TRANSISTOR 2SB649-C	101	8	8-759-974-06	IC 3N7406N
Q28	8	8-729-201-53	TRANSISTOR 2SA1015-GR	1C3	8	8-759-203-40	IC TC74HC393P
Q29	8	8-729-306-92	TRANSISTOR 2SD669A-C		_	0 / 5 / 200 10	10 10/ 1103/31
Q30	8	8-729-201-89	TRANSISTOR 2SA1265-0	ICB1	8	8-759-202-99	IC TC74HC173P
,				ICB2	8	8-759-910-83	IC TLO72ACP
Q31	8	8-729-281-53	TRANSISTOR 2SC1815-GR	ICB4	8	8-759-990-04	IC TLO74CN
Q32	8	8-729-201-53	TRANSISTOR 28A1015-GR	ICB 5	8	8-759-133-90	IC UPC339C
Q33	8	8-729-201-53	TRANSISTOR 2SAIO15-GR TRANSISTOR 2SC1815-GR	ICB6	8	8-759-133-90	IC UPC339C
Q34	8	8-729-281-53 8-729-281-53	TRANSISTOR 2SC1815-GR	ICB7	8	8-759-916-98	IC SN74HC377N
Q35	8	0-/29-201-33		ICC1	8	8-759-202-99	IC TC74HC173P
Rll	8	1-217-611-00		ICC2	8		IC TC74HC173P
R12	8	1-217-611-00		ICC3	8	8-759-202-99	IC TC74HC173P
R1.3	8	1-217-153-00		ICC4	8	8-759-202-26	IC TC74HC138P
R14	8	1-217-611-00	RES, METAL 0.1 10% 2W RES, METAL 0.47 10% 2W	ICC7	8	8-759-974-06	IC SN7406N
R24	8	1-217-153-00	RES, FEIRE 0.4/ 10% 2#				
R25	8	1-217-611-00	RES, METAL 0.1 10% 2W	ICD3	8	8-759-203-30	IC TC74HC365P
R37	8	1-217-153-00		ICD4	8	8-759-202-56	IC TC74HC245P
R38	8	1-217-611-00	RES, METAL 0.1 10% 2W	ICE1	8	8-759-916-99	IC SN74HC378N
R39	8	1-217-611-00	RES, METAL 0.1 10% 2W	ICE2	8	8-759-778-12	
				ICE3	8	8-759-202-21	IC TC74HC32P
RV1	8	1-230-843-11		ICE4	8	8-759-203-48	IC TC74HC573P
RV2	8	1-230-843-11		I CE 5	8	8-759-209-05	IC TMP82C79P-2
RV3	8	1-230-837-11					
RV4	8	1-230-837-11		ICF1	8	8-759-202-21	IC TC74HC32P
RV5	8	1-230-837-11	RES, ADJ, METAL 100	ICF2	8	8-759-916-98	
				ICF3	8	8-759-202-14	
				ICF4	8	8-759-974-06	
				ICF5	8	8-759-974-06	IC SN7406N
				ICF6	8	8-759-974-06	IC SN7406N
				ICG1	8	8-759-916-98	IC SN74HC377N
				ICG2	8		IC TC74HC04P
				ICG3	8		IC TC74HC163P
				ICG4	8		IC TBP28L42N-DSC-G4
200 2				I0G5	8	8-759-776-46	IC TBP28L42N-DSC-G5
DSC-3	0 180		MOUNTED PCB, DSC-36	ICG6	8	8-759-974-06	IC SN7406N
- (Thie	900	A-/0JU-471-A amhlu includes	the following parts.)				
(1111)	200	cmbi, includes	and account of the country	ICH1	8		IC TBP28L42N-DSC-H1
_	0	3-621-124-00	SPACER	ICH2	8 8	8-759-776-48	IC TBP28L42N-DSC-H2 IC TC74HC163P
C1	8	1-124-891-11		ICH3 ICH4	8	8-759-776-49	
C2	8	1-136-177-00		ICH5	8	8-759-776-50	
С3	8	1-136-177-00		ICH6	8	8-759-974-06	IC SN7406N
C4	8	1-124-898-11					
C5	8	1-124-898-11	CAP, ELECT 4700 20% 16V	ICI1	8	8-759-914-39	IC MBM2114A-10LP
C7	_	1-124-471-00	CAP, ELECT 1000 20% 6.3V	ICI2	8	8-759-776-51	
C8	8	1-124-898-11		ICI3	8		IC SN74HC378N
C9	8	1-124-898-11	·	1014	8	8-759-916-99	IC SN74HC378N
C10	8	1-136-169-00	CAP, METAL 0.22 5% 50V	ICI5	8	8-759-004-63	IC MC74HC125N
	-		·	1016	8	8-759-202-14	IC TC74HC08P
C67	8	1-123-661-00	CAP, ELECT 100 20% 6.3V	1010 1017	8		IC TC74HC32P
C69	8		CAP, ELECT 100 20% 6.3V	•	-		
C71	8		CAP, ELECT 100 20% 6.3V	យោរ	8		IC SN74HC377N
C73	8		CAP, ELECT 100 20% 6.3V CAP, ELECT 10000 20% 6.3V	ICJ2	8	8-759-916-98	IC SN74HC377N
C74	8	1-124-091-11	CAF, ELECT 10000 20% 0.57	ICJ3	8		IC SN74HC377N
CN312	0	1-560-361-00	CONNECTOR POST HEADER,	ICJ4	8		IC TBP28L42N-DSC-J4
W.312	٠	1 300 301 00	ILG (8P)	ICJ5	8	8-759-203-30	IC TC74HC365P
CN313	0	1-560-369-00	CONNECTOR POST HEADER,	1016	8	8-750-016-08	IC SN74HC377N
			ILG (8P)	ICJ7	8		IC TC74HC04P
CN314		1-566-156-11		*~7	•	J . J J 202 / 4	
CN315		1-566-156-11		Ll	8	1-409-309-00	COIL, SN 72UH
CN319	0	1-560-363-00		.L2	8		COIL, SN 72UH
CMOUE	_	1-560-261-00	ILG (12P) CONNECTOR POST HEADER,	L3	8	1-409-309-00	COIL, SN 72UH
CN905	0	1~560-361-00	ILG (8P)				
				Q1	8	8-729-203-04	
D1		8-719-911-19	DIODE 188119	Q2	8		TRANSISTOR 2SC1815-GR
to 6				Q3 Q4	8 8	8-729-201-53 8-729-281-53	
				Q5	8	8-729-201-53	
D7	8		DIODE RD5.6E-B2	42	-	2 201)3	
D8	6		DIODE 188119	Q6	8	8-729-203-04	TRANSISTOR 2SK30A-GR
D9	8	8-719-911-19	DIODE 1SS119	Q7	8		TRANSISTOR 2SA1244-Y
				to 1	4		

```
Ref.
Ref.
                                                                                SP Parts No.
                                                                        No.
                                                                                                    Description
       SP Parts No.
No.
                            Description
                                                                                a 8-719-911-19 DIODE 188119
       8 8-729-206-56 TRANSISTOR 2SC3072-C
                                                                        D122
015
                                                                         to 134
 to 22
                                                                         SW1 s 1-554-048-00 SWITCH, PUSH
to 13
                                                                        SW 1
       8 8-729-281-53 TRANSISTOR 2SC1815-GR
O23
            1-247-881-00
                           RES, CARBON 120K 5% 1/4W
                           RES, CARBON 120K 5% 1/4W
RES, METAL 82 1% 1/6W
RES, METAL 82 1% 1/6W
            1-247-881-00
 R14
 R18
           1-215-395-00
            1-215-395-00
 R19
       8
                           RES, METAL 240 17 1/6W
            1-215-406-00
 R20
                                          240 17 1/6W
180 17 1/6W
620 17 1/6W
            1-215-406-00
                           RES, METAL
 R21
            1-215-403-00
1-215-416-00
                           RES, METAL
RES, METAL
 R22
 R23
       8
                           RES, METAL
            1-215-433-00
                                          3.3K 1% 1/6W
 R24
       8
            1-215-443-00
                           RES, METAL
                                          8.2K 1% 1/6W
                                                                        DSP-14 BOARD
 R25
                                                                               o A-7850-502-A MOUNTED PCB, DSP-14
            1-215-492-00
                           RES, CARBON 910K 17 1/6W
                                                                        (This assembly includes the following parts.)
            1-235-005-00
                           RESISTOR BLOCK 47K
 RR 1
       8
                                                                                o 4-920-509-01 CAP (GRAY PLAIN), KEY
o 3-711-156-01 KEY CAP (R)
o 3-711-157-01 KEY CAP (ARROW)
            1-235-005-00
                           RESISTOR BLOCK 47K
 RB2
            1-231-549-11
                            RESISTOR BLOCK 47Kx4
 RB3
                           RESISTOR BLOCK 47K
 RB4
            1-235-005-00
                           RESISTOR BLOCK 47K
            1-235-005-00
 RR 5
                                                                                     8-719-911-19 DIODE 188119
            1-235-005-00
                           RESISTOR BLOCK 47K
                                                                        D1
 RB6
       8
                                                                         to 5
                                                                                     8-719-812-43 DIODE TLG124A
                                                                         D6
                                                                                     8-719-812-43 DIODE TLG124A
                                                                         D7
                                                                                8
                                                                                     8-719-939-91 DIODE HDSP-4850
                                                                         D8
                                                                                     8-719-939-91 DIODE HDSP-4850
                                                                         ъq
                                                                                     8-719-939-91 DIODE HDSP-4850
                                                                         D10
                                                                         DG 1
                                                                                   8-719-907-82 DIODE GL-9E03D
                                                                          to 18
 DSP-13 BOARD
        o A-7850-492-A MOUNTED PCB, DSP-13
                                                                         SW1 s 1-554-761-11 SWITCH, KEY BOARD(WITH LE))
 (This assembly includes the following parts.)
                                                                         SW 1
              1-124-471-00 CAP, ELECT 1000 20% 6.3V
             1-123-661-00 CAP, ELECT 100 20% 6.3V
1-123-661-00 CAP, ELECT 100 20% 6.3V
1-124-471-00 CAP, ELECT 1000 20% 6.3V
 C3
 C4
 CN317 o 1-560-362-00 CONNECTOR POST HEADER,
                               T.G (10P)
       s 8-719-821-14 DIODE TLR114A
 D14
         8 8-719-811-44 DIODE TLG114A
                                                                         ED-16 BOARD
                                                                                o A-7850-466-A MOUNTED PCB, ED-16
  to 26
                                                                         (This assembly includes the following parts.)
         8 8-719-812-41 DIODE TLR124
 D27
                                                                         - s 2-251-622-11 LEVER, PC BOARD ICA1 s 8-759-203-50 IC TC74HC574P
  to 30
             8-719-812-41 DIODE TLR124
 D31
                                                                          to 9
                             DIODE TLG114A
              8-719-811-44
 D32
         8
             8-719-811-44
                             DIODE TLG114A
 D33
                                                                         ICA10 s 8-759-203-60 IC TC74HC670P
              8-719-945-71
                             DIODE BR5551K
                                                                         ICAll s
                                                                                     8-759-203-60 IC TC74HC670P
 D34
             8-719-945-73 DIODE PY5551K-M-92
                                                                                     8-759-203-50 IC TC74HC574P
 D35
                                                                         ICB1
                                                                          to 6
             8-719-945-72 DIODE BG5551K-92
 D36
  to 41
                                                                         ICB7
                                                                                     8-759-001-42 IC MC74HC174N
                                                                                     8-759-001-42
                                                                                                    IC MC74HC174N
                                                                         ICB8
             8-719-945-71 DIODE BR5551K
8-719-945-73 DIODE PY5551K-M-92
                                                                                     8-759-203-50 IC TC74HC574P
 n42
                                                                         ICB9
                                                                                     8-759-916-98 IC SN74HC377N
                                                                         ICB10 s
 D43
  D44
             8-719-945-72 DIODE BG5551K-92
                                                                                     8-759-202-34 IC TC74HC257P
                                                                         ICBll s
  to 49
                                                                                     8-759-203-50
                                                                                                    IC TC74HC574P
                                                                         ICC1
        s 8-719-945-71 DIODE BR5551K
                                                                                                    IC TC74HC574P
IC TC74HC157P
 กรถ
                                                                         ICC2
                                                                                     8-759-203-50
                                                                                     8-759-202-27
                                                                         ICC3
                                                                                 8
        8 8-719-945-72 DIODE BG5551K-92
 D51
                                                                         ICC6
                                                                                     8-759-914-39
                                                                                                    IC MBM2114A-10LP
  to 82
                                                                                     8-759-914-39 IC MBM2114A-10LP
8-759-202-74 IC TC74HC04P
                                                                         ICC7
                                                                         ICC11 s
        s 8-719-945-73 DIODE PY5551K-M-92
 183
  to 88
                                                                                     8-759-203-24 IC TC74HC283P
                                                                         ICD2
                                                                                     8-759-203-24 IC TC74HC283P
             8-719-945-71 DIODE BR5551K
8-719-945-72 DIODE BG5551K-92
                                                                         ICD3
                                                                                     8-759-202-27 IC TC74HC157P
8-759-203-50 IC TC74HC574P
  D90
                                                                         TCD6
                                                                                 R
                                                                                     8-759-203-50 IC TC74HC574P
  to 121
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NOTE: Please see pages D-21 for the part numbers of capacitors and resistors that are not

listed in the parts list.

n-£								
Ref. No.	SP	Parts No.	Description	Re	ef.			
				No	٠.	SP	Parts No.	Description
ICD9	8	8-759-778-65	IC 27C512P-ED16-D9	IC	Ml	8	8-759-000-99	IC MC74HC74N
ICD10	8	8-759-203-50	IC TC74HC574P	t	03			
ICD11	8	8-759-202-14	IC TC74HC08P	10		8	8-759-202-14 8-759-202-74	IC TC74HC08P IC TC74HC04P
ICE1	8	8-759-203-50	IC TC74HC574P	10	M)	8	6-139-202-14	10 10/4RC04F
ICE2	8		IC TC74HC574P	10	м6	8	8-759-202-24	IC TC74HC86P
ICE3	8		IC TC74HC157P	IC		8	8-759-202-93	IC TC74HC153P
ICE5 ICE6	8		IC ADSP-1010AJN IC TC74HC574P	10		8 8	8-759-202-32 8-759-202-84	
	-			IC	M10	8	8-759-202-32	IC TC74HC163P
ICE7 ICE8	8 8		IC TC74HC574P IC MB7114L-ED16-E8	IC	M11	8	8-759-202-32	IC TC74HC163P
ICE9	8		IC SN74HC377N	RB	1	8	1-235-005-00	RESISTOR BLOCK 47K
ICE10	8		IC TC74HC67OP		o 7			
ICEll	8	0-/39-//0-/4	IC MB7114L-ED16-E11	SW	,	8	1-553-252-00	SWITCH, ROTARY
ICF1	8		IC TC74HC283P	511	•		1 333 131 00	bwildi, adiaci
ICF2	8		IC TC74HC283P IC TC74HC157P					
ICF3 ICF4	8 8		IC TC74HC574P					
ICF5	8		IC TC74HC574P					
ICF6	8	8-759-202-21	IC TC74HC32P					
ICF7	8	8-759-202-74	IC TC74HC04P					
ICF8	8	8-759-202-78						
ICF9 ICF10	8 8		IC TC74HC32P IC TC74HC163P	. RD	-17	BAAB	n	
ICF11	8		IC MC74HC74N	-	17	0		MOUNTED PCB, ED-17
7071	_	0. 750-01 4-20	TO MRM21164101 P	(T	his .	asse	mbly includes	the following parts.)
ICH1 to 4	8	6-739-914-39	IC MBM2114A-10LP	_		8	2-251-622-00	LEVER, PC BOARD
						-		22.24, 10 20.25
ICH5 to 7	8	8-759-202-32	IC TC74HC163P	C1		8	1-161-974-00	CAP, CERAMIC 0.1 20% 16V
,				IC.	A1	8	8-759-202-34	IC TC74HC257P
1 CH8	8		IC MB7114L-ED16-H8	IC	A2	8		IC TC74HC257P
ICH9 ICH10	8		IC TC74HC00P IC SN74HC378N	1C. 1C.		8	8-759-001-39 8-759-001-39	IC MC74HC164N IC MC74HC164N
ICH11	8		IC MC74HC174N	IC.		8	8-759-202-26	
TC 11	_	0.750_202_32	TC TC7/UC163D					
ICJ1 ICJ2	8		IC TC74HC163P IC MC74HC174N	1C.		8 8	8-759-007-10 8-759-202-74	IC MC74HC541N IC TC74HC04P
ICJ3	8	8-759-776-35	IC TBP28L42N-ED16-J3	IC.		8	8-759-916-10	IC SN74HC378N
ICJ4	8		IC TBP28L42N-ED16-J4 IC TBP28L42N-ED16-J5	IC.		8	8-759-202-22	IC TC74HC74P
ICJ5	8	8-139-116-31	1C 1BF26L42N-ED10-35	10.	A10	8	8-759-202-22	IC TC74HC74P
ICJ6	8		IC TBP28L42N-ED16-J6	IC		8		IC TC74HC257P
ICJ7 ICJ8	8 8		IC TC74HC574P IC MC74HC74N	IC		8	8-759-202-34 8-759-001-39	
ICJ9	8	8-759-202-24	IC TC74HC86P	IC		8 6	8-759-903-85	
ICJ10	6		IC TC74HC257P	IC		8	8-759-202-26	IC TC74HC138P
ICJII	8	8-739-202-34	IC TC74HC257P	TC	В6		8-759-202-14	TC TC74HC08P
ICK1	8	8-759-776-76	IC MB7114L-ED16-K1	IC		8	8-759-202-11	
ICK2 ICK3	8	8-759-776-77 8-759-914-39	IC MB7114L-ED16-K2 IC MBM2114A-10LP	IC		8	8-759-202-74	IC TC74HC04P
ICK4	8 8	8-759-776-39		IC	В9 В10	8 8	8-759-202-22 8-759-203-01	IC TC74HC74P IC TC74HC175P
ICK5	8	8-759-203-50	IC TC74HC574P			_	0	
ICK6	8	8-759-202-32	IC TC74HC163P	10		8	8-759-202-34 8-759-202-34	IC TC74HC257P IC TC74HC257P
ICK7	8		IC TC74HC163P	IC		8	8-759-202-34	IC TC74HC237F
ICK8	8		IC TC74HC08P	IC	C4	8	8-759-203-52	IC TC74HC595P
ICK9 ICK10	8	8-759-203-32	IC TC74HC595P IC TC74HC151P	IC	C5	8	8-759-202-56	IC TC74HC245P
ICK11	8	8-759-001-42	IC MC74HC174N	IC	C6	8	8-759-202-56	IC TC74HC245P
ICL1	_	0_750_001_30	IC MC74HC164N	IC		8	8-759-007-10	IC MC74HC541N
to 3	8	8-739-001-39	10 NC/48C104N	1C		8 8	8-759-202-22 8-759-202-22	IC TC74HC74P IC TC74HC74P
			YO MOT/190517		C10	8	8-759-202-21	IC TC74HC32P
ICL4 ICL5	6 8	8-759-203-17 8-759-000-99		T.01	n 1	_	0.750.000.07	YO MOZ/WOOSZD
ICL6	8	8-759-202-11	IC TC74HC00P	IC:		8 8	8-759-202-34 8-759-202-34	IC TC74HC257P IC TC74HC257P
ICL7	8	8-759-000-99		IC	D3	8	8-759-203-21	IC TC74HC273P
ICL8	8	8-759-202-21	IC TC74HC32P	IC		8	8-759-203-52	IC TC74HC595P
ICL9	8	8-759-202-74		IC	נע	8	8-759-203-50	IC TC74HC574P
ICL10	8	8-759-001-42	IC MC74HC174N	IC		8	8-759-203-50	IC TC74HC574P
ICL11	8	8-759-000-99	IC MC74HC74N	ICI ICI		8 8	8-759-203-50 8-759-203-50	IC TC74HC574P IC TC74HC574P
				IC		8	8-759-916-98	IC SN74HC377N
NOTE	. p1	989 889 BBB	D-21 for the part numbers		D10	6	8-759-202-93	IC TC74HC153P
	οf	capacitors and	resistors that are not					
	1 i	sted in the par	ts list.					
				D 44				

```
Ref.
Ref.
                                                                               SP Parts No.
                                                                                                   Description
                                                                       No.
       SP Parts No.
                            Description
No.
                                                                       ICMI
                                                                                   8-759-202-22 IC TC74HC74P
            8-759-203-50 IC TC74HC574P
ICE1
                                                                       ICM2
                                                                                   8-759-202-27
                                                                                                   IC TC74HC157P
                            IC TC74HC574P
            8-759-203-50
ICE2
       8
                                                                                                  IC MC74HC597N
                                                                                   8-759-004-84
            8-759-903-84
                            IC SN74LS384N
                                                                       TCM3
                                                                               8
ICE3
       8
                                                                                   8-759-004-84
                                                                                                   IC MC74HC597N
                                                                       ICM4
                            IC SN74LS384N
                                                                               8
ICE4
            8-759-903-84
       8
                                                                                    8-759-746-95
                                                                                                   IC MBM27C256-20
                                                                        ICM5
ICE5
            8-759-203-50
                            IC TC74HC574P
       8
                                                                                    8-759-202-27 IC TC74HC157P
                            IC TC74HC574P
                                                                       TCM9
            8-759-203-50
TCR6
       8
                                                                                   8-759-202-74 IC TC74HC04P
            8-759-203-50
                            IC TC74HC574P
                                                                       TCM10
ICE 7
       8
            8-759-203-50
                            IC TC74HC574P
ICE8
       8
                                                                                    1-235-005-00 RESISTOR BLOCK 47K
                                                                        RB1
            8-759-916-98
                            TC SN74HC377N
ICE 9
                                                                        to 6
                            IC MB7128E
ICE10
            8-759-750-16
                                                                                    1-235-005-00 RESISTOR BLOCK 47K
                                                                       RR7
                                                                               8
            8-759-203-50
                           IC TC74HC574P
ICF1
        8
                                                                                                   RESISTOR BLOCK 47K
                                                                                    1-235-005-00
                                                                       RB8
             8-759-203-50
                            IC TC74HC574P
                                                                               8
ICF2
                                                                                    1-231-385-00
                                                                                                   RESISTOR BLOCK 4.7K
                                                                        RB9
             8-759-903-84
                            IC SN74LS384N
ICF3
                                                                        RB10
                                                                                    1-231-385-00 RESISTOR BLOCK 4.7K
                            IC SN74LS384N
 ICF4
             8-759-903-84
             8-759-203-24
                           IC TC74HC283P
 ICF5
                                                                                    1-231-549-11 RESISTOR BLOCK 47Kx4
                                                                       RR 1 1
                                                                               B
             8-759-202-32 IC TC74HC163P
 ICF6
                                                                                    1-553-252-00 SWITCH, ROTARY
                                                                        SW1
             8-759-916-98 IC SN74HC377N
8-759-202-32 IC TC74HC163P
 ICE 7
 ICF10
                           IC TC511000P-10
             8-759-207-98
 ICG1
             8-759-207-98 IC TC511000P-10
8-759-207-98 IC TC511000P-10
 ICG 2
        8
 ICG3
             8-759-207-98
                           IC TC511000P-10
 10G4
        8
             8-759-203-24
                           IC TC74HC283P
 TCG 5
        8
             8-759-202-32 IC TC74HC163P
 ICG6
             8-759-916-98 IC SN74HC377N
 ICG7
             8-759-107-52 IC CXQ71054P
                                                                        HP-31 BOARD
 10G9
                                                                               o A-7850-488-A MOUNTED PCB, HP-31
             8-759-202-32 IC TC74HC163P
 TOG 10
        8
                                                                        (This assembly includes the following parts.)
             8-759-207-98 IC TC511000P-10
 ICH1
                                                                                    7-682-647-09 SCREW +PSW 3x6
             8-759-207-98 IC TC511000P-10
8-759-207-98 IC TC511000P-10
 ICH2
 ICH3
                                                                                    1-124-282-00 CAP, ELECT NONPOLAR
                                                                        C1
             8-759-207-98
                            IC TC511000P-10
 ICH4
        8
                                                                                                                 22 20% 257
1.0 20% 507
             8-759-203-24
                           IC TC74HC283P
 ICH 5
        8
                                                                                     1-124-038-00
                                                                                                   CAP, ELECT
                                                                        C2
                                                                                                  CAP, CERAMIC 330P 107 507
                                                                        C3
                                                                                    1-102-112-00
                            IC TC74HC163P
             8-759-202-32
 ICH6
                                                                                                   CAP, ELECT
                                                                                                                 47
                                                                                                                       20% 257
                                                                        CA
                                                                                    1-124-126-00
             8-759-007-10
                            IC MC74HC541N
 ICH7
        8
                                                                                    1-124-126-00
                                                                                                                       20% 257
             8-759-203-50
                            IC TC74HC574P
                                                                        C5
 TCH8
        8
             8-759-203-50
                            IC TC74HC574P
 ICH9
        8
                                                                                    1-124-282-00
                                                                                                   CAP, ELECT NONPOLAR
                                                                        C6
 TCH10
             8-759-746-60
                           IC TBP28L42N
                                                                                                                 22 20% 25%
                                                                                                   CAP, ELECT
                                                                                                                  22
                                                                                                                       20% 357
                                                                                    1-124-786-11
                                                                        C7
             8-759-207-98 IC TC511000P-10
 ICJ 1
         8
                                                                                     1-161-485-00
                                                                                                   CAP, CERAMIC 0.1
                                                                                                                            507
             8-759-207-98
                                                                        C8
                           IC TC511000P-10
 ICJ 2
        8
                                                                                     1-161-485-00
                                                                                                   CAP, CERAMIC 0.1
                                                                                                                           507
                                                                         C9
             8-759-207-98 IC TC511000P-10
8-759-207-98 IC TC511000P-10
 ICJ3
                                                                                                                       20% 357
                                                                        C10
                                                                                     1-124-786-11
                                                                                                   CAP, ELECT
                                                                                                                 22
  ICJ4
             8-759-203-24
                            IC TC74HC283P
 IU 5
                                                                                                   CAP, ELECT NONPOLAR
                                                                                     1-124-282-00
                                                                        C11
                                                                                8
                                                                                                                 22 20% 25%
1.0 20% 50%
             8-759-202-32 IC TC74HC283P
 ICJ6
        8
                                                                                     1-124-038-00
                                                                                                   CAP, ELECT
             8-759-007-10 IC MC74HC541N
                                                                        C12
 ICJ7
                                                                                                   CAP, CERAMIC 330P 10% 50% CAP, ELECT 47 20% 25% CAP, ELECT 47 20% 25%
                            IC SN74HC377N
                                                                        C13
                                                                                     1-102-112-00
             8-759-916-98
  IU8
                                                                                     1-124-126-00
             8-759-203-50
                            IC TC74HC574P
                                                                        C14
                                                                                8
  ICJ9
                                                                                     1-124-126-00
                            IC TBP28L42N
                                                                         C15
             8-759-746-60
 TCJ 10
         8
                                                                                     1-124-282-00
                                                                                                    CAP, ELECT NONPOLAR
                                                                        C16
                                                                                                                  22
                                                                                                                      207 257
             8-759-207-98 IC TC511000P-10
  ICK1
                           IC TC511000P-10
  ICK 2
             8-759-207-98
                                                                        CN309 o 1-560-369-00 CONNECTOR POST HEADER,
             8-759-207-98
                            IC TC511000P-10
  ICK3
                                                                                                      ILG (8P)
             8-759-207-98
                            IC TC511000P-10
  TCK 4
             8-759-203-24
                            TC TC74HC283P
  ICK 5
                                                                         ICI
                                                                                    8-759-745-63 IC NJM4560D-X
             8-759-202-32 IC TC74HC163H
  ICK6
                                                                                     1-507-931-11 JACK, LARGE TYPE
                                                                        JK1
             8-759-001-39
                            IC MC74HC164N
  ICK 7
         8
             8-759-202-32
                            IC TC74HC163P
  TCK8
                                                                                     8-729-281-52 TRANSISTOR 2SC1815-Y
                                                                         01
              8-759-202-24
                            IC TC74HC86P
  ICK 9
                                                                         Q2
                                                                                     8-729-306-92
                                                                                                   TRANSISTOR
             8-759-202-84 IC TC74HC109P
                                                                                                   TRANSISTOR 2SB649-C
                                                                         Q3
                                                                                     8-729-304-92
                                                                                                   TRANSISTOR 2SC1815-Y
                                                                                     8-729-281-52
                                                                        011
                                                                                     8-729-306-92
                                                                                                   TRANSISTOR
                                                                         012
             8-759-202-74 IC TC74HC04P
  TCL.1
                                                                                                   TRANSISTOR 2SB649-C
                                                                                     8-729-304-92
                                                                         013
             8-759-202-27
                            IC TC74HC157P
  ICL2
             8-759-202-27
                            IC TC74HC157P
  ICL3
                                                                                                                 6.2K 1% 1/6
                                                                        R3
                                                                                     1-215-440-00 RES, METAL
                            IC TC74HC273P
             8-759-203-21
  ICL4
                                                                                     1-247-735-11 RES, CARBON 47 5% 1/2/
1-215-440-00 RES, METAL 6.2K 1% 1/6/
                           IC SN74LS189AN
                                                                        R11
                                                                                8
             8-759-901-89
  TCL6
                                                                         R23
                                                                                     1-247-735-11 RES, CARBON 47 5% 1/2
                            IC SN74LS189AN
                                                                         R31
             8-759-901-89
  TCL.7
             8-759-203-43 IC TC74HC534P
8-759-202-11 IC TC74HC00P
  ICL8
                                                                                    1-237-671-11 RES. VAR. CARBON 10K/10
                                                                        RV 1
  ICL9
             8-759-202-14 IC TC74HC08P
  TCL10
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NOTE: Please see pages D-21 for the part numbers of capacitors and resistors that are not

listed in the parts list.

Ref.	Parts No.	Description	Ref. No.	SP	Parts No.	Description
		20011ption	T 0 1			•
IF-151 BO.		MOUNTED DOT TE 151	ICK1 ICK2	8 8		IC MAX232CPE IC TC74HC573P
		MOUNTED PCB, IF-151 the following parts.)	ICK3	8		IC MC74HC54ON
(2000	Cmp1, 12010101	the rolling factor,	ICK4	8	8-759-000-99	IC MC74HC74N
- o	3-621-124-00		ICK5 ICK6	8		IC MC74HC74N
- в	1-561-832-00	SOCKET, SHORT	ICKO	ь	0-/39-202-/4	IC TC74HC04P
Cl s	1-161-485-00	CAP, CERAMIC 0.1 50V	ICL1	8	8-759-938-75	IC MAX232CPE
to 13		•	ICL2	8		IC TC74HC573P
C14 -	1-124-126-00	CAP, ELECT 47 20% 25V	ICL3 ICL5	8 8		IC MC74HC74N IC TC74HC163P
C14 s to 19	1-124-126-00	CAP, ELECT 4/ 202 25V	ICL6	8		IC TC74HC04P
C20 8	1-161-485-00	CAP, CERAMIC 0.1 50V	ICM2 ICM5	8	8-759-908-36	IC SN74L831N IC TC74HC393P
to 30			ION	8	6-739-203-40	1C 1C/4HC393P
C31 s	1-123-356-00	CAP, ELECT 10 20% 50V	R9	8	1-247-887-00	RES, CARBON 220K 5% 1/4W
C32 s	1-161-485-00	CAP, CERAMIC 0.1 50V	nn i		1 007 007 00	PM6 T6 PAR - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
to 43			RB1 RB2	8 8	1-231-410-00	RESISTOR BLOCK 47K RESISTOR BLOCK 10K
C44 s	1-123-321-00	CAP, ELECT 220 20% 16V	RB3	8	1-231-385-00	
C45 s		CAP, CERAMIC 0.1 50V	RB4	8		RESISTOR BLOCK 10K
to52			RB5	8	1-235-005-00	RESISTOR BLOCK 47K
C53 s	1_102_063_00	CAP, CERAMIC 33P 5% 50V	RB6	8	1-235-005-00	RESISTOR BLOCK 47K
		CAP, CERAMIC 33P 5% 50V	RB7			RESISTOR BLOCK 10K
C55 8		CAP, CERAMIC 0.1 50V	RB8			RESISTOR BLOCK 10K
			RB9	8	1-231-385-00	RESISTOR BLOCK 4.7K
CN445 o	1-560-361-00	CONNECTOR POST HEADER,	SW1	8	1-570-623-11	מודירט הום
CN910 o	1-560-358-00	ILG (8P) CONNECTOR POST HEADER,	011	•	1-5/0-025-11	Switch, Dir
ON 910 U	1-500-550-00	ILG (4P)	X1	8	1-527-847-00	OSCILLATOR, CRYSTAL
D1 s	8-719-911-19	DIODE 188119				
IC1 s	8-759-000-99	IC MC74HC74N				
ICA2 s	975004614	IC MS6130L-70P				
	8-759-202-56					
			IF-152			
ICB4 s	8-759-202-56	IC TC74HC245P	-	0	A-7850-500-A	MOUNTED PCB, IF-152
ICB4 s			-	0	A-7850-500-A	MOUNTED PCB, IF-152 the following parts.)
ICB4 s	8-759-202-89		-	o asse	A-7850-500-A mbly includes	
ICB4 s	8-759-202-89 8-759-902-94	IC TC74HC139P	-	o asse	A-7850-500-A mbly includes	the following parts.) FUSE, GLASS TUBE
ICB4 s ICC1 s ICC2 s ICC3 s	8-759-202-89 8-759-902-94 8-759-902-94	IC TC74HC139P IC SN74LS590N IC SN74LS590N	(This a	0 asse s	A-7850-500-A mbly includes 1-532-824-11 1-533-189-11	the following parts.) FUSE, GLASS TUBE HOLDER, FUSE
ICB4 8 ICC1 8 ICC2 8 ICC3 8 ICC3 8	8-759-202-89 8-759-902-94 8-759-902-94 8-759-203-33 8-759-202-26	IC TC74HC139P IC SN74LS590N IC SN74LS590N IC TC74HC367P IC TC74HC138P	-	0 asse	A-7850-500-A mbly includes 1-532-824-11 1-533-189-11	the following parts.) FUSE, GLASS TUBE
ICB4 s ICC1 s ICC2 s ICC3 s	8-759-202-89 8-759-902-94 8-759-902-94 8-759-203-33 8-759-202-26	IC TC74HC139P IC SN74LS590N IC SN74LS590N IC TC74HC367P IC TC74HC138P	(This a	0 asse s	A-7850-500-A mbly includes 1-532-824-11 1-533-189-11	the following parts.) FUSE, GLASS TUBE HOLDER, FUSE
ICB4 s ICC1 s ICC2 s ICC3 s ICD1 s ICD2 s ICD2 s ICD3 s ICD4 s	8-759-202-89 8-759-902-94 8-759-902-94 8-759-203-33 8-759-203-26 8-759-202-26 8-759-202-11	IC TC74HC139P IC SN74LS590N IC SN74LS590N IC TC74HC367P IC TC74HC138P IC TC74HC138P IC TC74HC00P	C1 to 6	O 888e 8 8	A-7850-500-A mbly includes 1-532-824-11 1-533-189-11 1-102-942-00 1-162-851-11	the following parts.) FUSE, GLASS TUBE HOLDER, FUSE CAP, CERAMIC 5P 5% 50V CAP, CERAMIC 0.1 10% 16V
ICB4 s ICC1 s ICC2 s ICC3 s ICD1 s ICD2 s ICD2 s ICD3 s ICD4 s	8-759-202-89 8-759-902-94 8-759-902-94 8-759-203-33 8-759-202-26 8-759-202-26	IC TC74HC139P IC SN74LS590N IC SN74LS590N IC TC74HC367P IC TC74HC138P IC TC74HC138P IC TC74HC00P	(This a	O 8886 8 8	A-7850-500-A mbly includes 1-532-824-11 1-533-189-11 1-102-942-00 1-162-851-11	the following parts.) FUSE, GLASS TUBE HOLDER, FUSE CAP, CERAMIC 5P 5% 50V
ICB4 s ICC1 s ICC2 s ICC3 s ICD1 s ICD2 s ICD3 s ICD4 s ICD5 s	8-759-202-89 8-759-902-94 8-759-902-94 8-759-203-33 8-759-202-26 8-759-202-21 8-759-202-11	IC TC74HC139P IC SN74LS590N IC SN74LS590N IC TC74HC367P IC TC74HC138P IC TC74HC138P IC TC74HC00P IC TC74HC00P	C1 to 6 C10 C11	O 888e 8 8	A-7850-500-A mbly includes 1-532-824-11 1-533-189-11 1-102-942-00 1-162-851-11 1-162-851-11	the following parts.) FUSE, GLASS TUBE HOLDER, FUSE CAP, CERAMIC 5P 5% 50V CAP, CERAMIC 0.1 10% 16V CAP, CERAMIC 0.1 10% 16V
ICB4 s ICC1 s ICC2 s ICC3 s ICD1 s ICD2 s ICD3 s ICD4 s ICD5 s	8-759-202-89 8-759-902-94 8-759-902-94 8-759-203-33 8-759-202-26 8-759-202-11 8-759-202-14 8-759-007-09	IC TC74HC139P IC SN74LS590N IC SN74LS590N IC TC74HC367P IC TC74HC138P IC TC74HC138P IC TC74HC00P IC TC74HC08P	- (This a	O 888e 8 8 8	A-7850-500-A mbly includes 1-532-824-11 1-533-189-11 1-102-942-00 1-162-851-11 1-162-851-11 1-561-899-00	the following parts.) FUSE, GLASS TUBE HOLDER, FUSE CAP, CERAMIC 5P 5% 50V CAP, CERAMIC 0.1 10% 16V CAP, CERAMIC 0.1 10% 16V CONNECTOR SOCKET, MINI 50P
ICB4 s ICC1 s ICC2 s ICC3 s ICD1 s ICD2 s ICD3 s ICD4 s ICD5 s	8-759-202-89 8-759-902-94 8-759-902-94 8-759-203-33 8-759-202-26 8-759-202-21 8-759-202-11	IC TC74HC139P IC SN74LS590N IC SN74LS590N IC TC74HC367P IC TC74HC138P IC TC74HC138P IC TC74HC00P IC TC74HC08P IC MC74HC540N IC TC74HC04P	C1 to 6 C10 C11 CN801 CN802	O 888e 8 8 8	A-7850-500-A mbly includes 1-532-824-11 1-533-189-11 1-102-942-00 1-162-851-11 1-162-851-11 1-561-899-00 1-561-655-00	the following parts.) FUSE, GLASS TUBE HOLDER, FUSE CAP, CERAMIC 5P 5% 50V CAP, CERAMIC 0.1 10% 16V CAP, CERAMIC 0.1 10% 16V
ICB4 s ICC1 s ICC2 s ICC3 s ICD1 s ICD2 s ICD3 s ICD4 s ICD5 s ICE2 s ICE3 s ICE4 s ICE5 s	8-759-202-89 8-759-902-94 8-759-902-94 8-759-203-33 8-759-202-26 8-759-202-11 8-759-202-14 8-759-202-74 8-759-202-74 8-759-202-26 8-759-202-26	IC TC74HC139P IC SN74LS590N IC SN74LS590N IC TC74HC367P IC TC74HC138P IC TC74HC138P IC TC74HC00P IC TC74HC00P IC TC74HC08P IC TC74HC08P IC TC74HC32P	C1 to 6 C10 C11 CN801 CN802 CN803	O 888888888888888888888888888888888888	A-7850-500-A mbly includes 1-532-824-11 1-533-189-11 1-102-942-00 1-162-851-11 1-162-851-11 1-561-899-00 1-561-655-00 1-561-655-00	the following parts.) FUSE, GLASS TUBE HOLDER, FUSE CAP, CERAMIC 5P 5% 50V CAP, CERAMIC 0.1 10% 16V CAP, CERAMIC 0.1 10% 16V CONNECTOR SOCKET, MINI 50P CONNECTOR SOCKET, MINI 9P CONNECTOR SOCKET, MINI 9P
ICB4 s ICC1 s ICC2 s ICC3 s ICD1 s ICD2 s ICD3 s ICD4 s ICD5 s ICE2 s ICE3 s ICE4 s ICE5 s	8-759-202-89 8-759-902-94 8-759-902-94 8-759-203-33 8-759-202-26 8-759-202-11 8-759-202-14 8-759-202-14 8-759-202-74 8-759-202-74	IC TC74HC139P IC SN74LS590N IC SN74LS590N IC TC74HC367P IC TC74HC138P IC TC74HC138P IC TC74HC00P IC TC74HC00P IC TC74HC08P IC TC74HC08P IC TC74HC32P	C1 to 6 C10 C11 CN801 CN802 CN803	O	A-7850-500-A mbly includes 1-532-824-11 1-533-189-11 1-102-942-00 1-162-851-11 1-162-851-11 1-561-899-00 1-561-655-00	the following parts.) FUSE, GLASS TUBE HOLDER, FUSE CAP, CERAMIC 5P 5% 50V CAP, CERAMIC 0.1 10% 16V CAP, CERAMIC 0.1 10% 16V CONNECTOR SOCKET, MINI 50P CONNECTOR SOCKET, MINI 9P CONNECTOR SOCKET, MINI 9P
ICB4 s ICC1 s ICC2 s ICC3 s ICD1 s ICD2 s ICD3 s ICD4 s ICD5 s ICE4 s ICE3 s ICE4 s ICE5 s ICE7 s	8-759-202-89 8-759-902-94 8-759-902-94 8-759-203-33 8-759-202-26 8-759-202-11 8-759-202-14 8-759-202-14 8-759-202-74 8-759-202-74 8-759-202-74 8-759-202-74	IC TC74HC139P IC SN74LS59ON IC SN74LS59ON IC TC74HC367P IC TC74HC138P IC TC74HC138P IC TC74HC00P IC TC74HC08P IC MC74HC54ON IC TC74HC04P	C1 to 6 C10 C11 CN801 CN802 CN803	O	A-7850-500-A mbly includes 1-532-824-11 1-533-189-11 1-102-942-00 1-162-851-11 1-162-851-11 1-561-899-00 1-561-655-00 1-561-655-00	the following parts.) FUSE, GLASS TUBE HOLDER, FUSE CAP, CERAMIC 5P 5% 50V CAP, CERAMIC 0.1 10% 16V CAP, CERAMIC 0.1 10% 16V CONNECTOR SOCKET, MINI 50P CONNECTOR SOCKET, MINI 9P CONNECTOR SOCKET, MINI 9P
ICB4 s ICC1 s ICC2 s ICC3 s ICD1 s ICD2 s ICD3 s ICD4 s ICD5 s ICE5 s ICE7 s ICE7 s	8-759-202-89 8-759-902-94 8-759-902-94 8-759-203-33 8-759-202-26 8-759-202-11 8-759-202-14 8-759-202-14 8-759-202-74 8-759-202-74 8-759-202-74 8-759-202-74 8-759-202-74	IC TC74HC139P IC SN74LS590N IC SN74LS590N IC TC74HC367P IC TC74HC138P IC TC74HC138P IC TC74HC00P IC TC74HC00P IC TC74HC08P IC MC74HC540N IC TC74HC04P IC TC74HC032P IC TC74HC04P IC TC74HC04P IC TC74HC04P IC TC74HC04P	C1 to 6 C10 C11 CN801 CN802 CN803	O	A-7850-500-A mbly includes 1-532-824-11 1-533-189-11 1-102-942-00 1-162-851-11 1-162-851-11 1-561-899-00 1-561-655-00 1-561-655-00 8-719-911-19	the following parts.) FUSE, GLASS TUBE HOLDER, FUSE CAP, CERAMIC 5P 5% 50V CAP, CERAMIC 0.1 10% 16V CAP, CERAMIC 0.1 10% 16V CONNECTOR SOCKET, MINI 50P CONNECTOR SOCKET, MINI 9P CONNECTOR SOCKET, MINI 9P DIODE 188119
ICB4 s ICC1 s ICC2 s ICC3 s ICD1 s ICD2 s ICD3 s ICD4 s ICD5 s ICE2 s ICE3 s ICE4 s ICE5 s ICE7 s	8-759-202-89 8-759-902-94 8-759-902-94 8-759-203-33 8-759-202-26 8-759-202-11 8-759-202-14 8-759-202-14 8-759-202-74 8-759-202-18 8-759-202-18 8-759-202-18 8-759-208-40 8-759-300-63 8-759-300-63	IC TC74HC139P IC SN74LS59ON IC SN74LS59ON IC TC74HC367P IC TC74HC138P IC TC74HC38P IC TC74HC00P IC TC74HC08P IC MC74HC54ON IC TC74HC38P IC TC74HC04P IC TC74HC32P IC TC74HC32P IC TC74HC32P IC TC74HC34P IC TMPZ84COOAP-6 IC PCM3402IFF3V2.0 IC HM6264LP-15	C1 to 6 C10 C11 CN801 CN802 CN803 D1 to 18	O a 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	A-7850-500-A mbly includes 1-532-824-11 1-533-189-11 1-102-942-00 1-162-851-11 1-162-851-11 1-561-899-00 1-561-655-00 1-561-655-00 8-719-911-19	the following parts.) FUSE, GLASS TUBE HOLDER, FUSE CAP, CERAMIC 5P 5% 50V CAP, CERAMIC 0.1 10% 16V CAP, CERAMIC 0.1 10% 16V CONNECTOR SOCKET, MINI 50P CONNECTOR SOCKET, MINI 9P CONNECTOR SOCKET, MINI 9P DIODE 188119
ICB4 s ICC1 s ICC2 s ICC3 s ICD1 s ICD2 s ICD3 s ICD4 s ICD5 s ICE2 s ICE3 s ICE4 s ICE5 s ICE7 s	8-759-202-89 8-759-902-94 8-759-902-94 8-759-203-33 8-759-202-26 8-759-202-11 8-759-202-14 8-759-202-14 8-759-202-74 8-759-202-18 8-759-202-18 8-759-202-18 8-759-208-40 8-759-300-63 8-759-300-63	IC TC74HC139P IC SN74LS590N IC SN74LS590N IC TC74HC367P IC TC74HC138P IC TC74HC138P IC TC74HC00P IC TC74HC08P IC MC74HC540N IC TC74HC04P IC TC74HC03P IC TC74HC04P IC TC74HC04P IC TC74HC04P IC TC74HC32P IC TC74HC04P IC TC74HC32P IC TC74HC04P	C1 to 6 C10 C11 CN801 CN802 CN803 D1 to 18 D19 to 24	O 8 8 8 8 8 8 8 8 8 8	A-7850-500-A mbly includes 1-532-824-11 1-533-189-11 1-102-942-00 1-162-851-11 1-162-851-11 1-561-899-00 1-561-655-00 1-561-655-00 8-719-911-19	the following parts.) FUSE, GLASS TUBE HOLDER, FUSE CAP, CERAMIC 5P 5% 50V CAP, CERAMIC 0.1 10% 16V CAP, CERAMIC 0.1 10% 16V CONNECTOR SOCKET, MINI 50P CONNECTOR SOCKET, MINI 9P DIODE 188119 IC UPA54HA
ICB4 s ICC1 s ICC2 s ICC3 s ICD1 s ICD2 s ICD3 s ICD4 s ICD5 s ICE5 s ICE7 s ICE7 s ICE7 s	8-759-202-89 8-759-902-94 8-759-902-94 8-759-203-33 8-759-202-26 8-759-202-14 8-759-202-14 8-759-202-74 8-759-202-74 8-759-202-74 8-759-202-74 8-759-202-74 8-759-202-74 8-759-202-74 8-759-202-74 8-759-202-74 8-759-202-78	IC TC74HC139P IC SN74LS590N IC SN74LS590N IC TC74HC367P IC TC74HC138P IC TC74HC38P IC TC74HC00P IC TC74HC08P IC MC74HC540N IC TC74HC04P IC TC74HC04P IC TC74HC04P IC TC74HC04P IC TC74HC94P IC TMPZ84C00AP-6 IC PCM3402IFF3Y2.0 IC HM6264LP-15 IC TC74HC51P	C1 to 6 C10 C11 CN801 CN802 CN803 D1 to 18 D19 to 24 D25	O 8 8 8 8 8 8 8 8 8 8	A-7850-500-A mbly includes 1-532-824-11 1-533-189-11 1-102-942-00 1-162-851-11 1-162-851-11 1-561-899-00 1-561-655-00 1-561-655-00 8-719-911-19 8-759-107-45	the following parts.) FUSE, GLASS TUBE HOLDER, FUSE CAP, CERAMIC 5P 5% 50V CAP, CERAMIC 0.1 10% 16V CAP, CERAMIC 0.1 10% 16V CONNECTOR SOCKET, MINI 50P CONNECTOR SOCKET, MINI 9P CONNECTOR SOCKET, MINI 9P DIODE 188119 IC UPA54HA DIODE 188119
ICB4 s ICC1 s ICC2 s ICC3 s ICD1 s ICD2 s ICD3 s ICD4 s ICD5 s ICE2 s ICE3 s ICE5 s ICE7 s ICF1 s ICF3 s ICF5 s ICF6 s	8-759-202-89 8-759-902-94 8-759-902-94 8-759-203-33 8-759-202-26 8-759-202-11 8-759-202-14 8-759-202-14 8-759-202-74 8-759-202-18 8-759-202-18 8-759-202-18 8-759-208-40 8-759-300-63 8-759-300-63	IC TC74HC139P IC SN74LS590N IC SN74LS590N IC TC74HC367P IC TC74HC138P IC TC74HC138P IC TC74HC00P IC TC74HC00P IC TC74HC540N IC TC74HC32P IC TC74HC32P IC TC74HC04P IC TC74HC04P IC TC74HC04P IC TC74HC54CN IC TC74HC	C1 to 6 C10 C11 CN801 CN802 CN803 D1 to 18 D19 to 24	O 8 8 8 8 8 8 8 8 8 8	A-7850-500-A mbly includes 1-532-824-11 1-533-189-11 1-102-942-00 1-162-851-11 1-162-851-11 1-561-899-00 1-561-655-00 1-561-655-00 8-719-911-19	the following parts.) FUSE, GLASS TUBE HOLDER, FUSE CAP, CERAMIC 5P 5% 50V CAP, CERAMIC 0.1 10% 16V CAP, CERAMIC 0.1 10% 16V CONNECTOR SOCKET, MINI 50P CONNECTOR SOCKET, MINI 9P CONNECTOR SOCKET, MINI 9P DIODE 188119 IC UPA54HA DIODE 188119
ICB4 s ICC1 s ICC2 s ICC3 s ICD1 s ICD2 s ICD3 s ICD4 s ICD5 s ICE2 s ICE3 s ICE4 s ICE5 s ICE7 s ICE7 s ICF1 s ICF1 s ICF6 s ICF6 s	8-759-202-89 8-759-902-94 8-759-902-94 8-759-902-94 8-759-202-26 8-759-202-11 8-759-202-14 8-759-202-14 8-759-202-74 8-759-202-74 8-759-202-74 8-759-202-74 8-759-202-74 8-759-202-74 8-759-300-63 8-759-202-78 8-759-202-78	IC TC74HC139P IC SN74LS59ON IC SN74LS59ON IC TC74HC367P IC TC74HC138P IC TC74HC38P IC TC74HC00P IC TC74HC00P IC TC74HC08P IC MC74HC54ON IC TC74HC138P IC TC74HC138P IC TC74HC13P IC TC74HC32P IC TC74HC32P IC TC74HC54P	C1 to 6 C10 C11 CN801 CN802 CN803 D1 to 18 D19 to 24 D25 D26	0 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	A-7850-500-A mbly includes 1-532-824-11 1-533-189-11 1-102-942-00 1-162-851-11 1-162-851-11 1-561-899-00 1-561-655-00 1-561-655-00 8-719-911-19 8-759-107-45 8-719-911-19 8-759-926-30	the following parts.) FUSE, GLASS TUBE HOLDER, FUSE CAP, CERAMIC 5P 5% 50V CAP, CERAMIC 0.1 10% 16V CAP, CERAMIC 0.1 10% 16V CONNECTOR SOCKET, MINI 50P CONNECTOR SOCKET, MINI 9P DIODE 188119 IC UPA54HA DIODE 188119 IC AM26L830PC
ICB4 s ICC1 s ICC2 s ICC3 s ICD1 s ICD2 s ICD3 s ICD4 s ICD5 s ICE5 s ICE7 s ICE5 s ICE7 s ICE7 s ICF1 s ICF3 s ICF5 s ICF6 s ICG4 s ICG5 s	8-759-202-89 8-759-902-94 8-759-902-94 8-759-202-94 8-759-202-26 8-759-202-14 8-759-202-14 8-759-202-74 8-759-202-74 8-759-202-74 8-759-202-74 8-759-202-74 8-759-202-78 8-759-202-78 8-759-202-17 8-759-202-17 8-759-202-17	IC TC74HC139P IC SN74LS590N IC SN74LS590N IC TC74HC367P IC TC74HC138P IC TC74HC38P IC TC74HC00P IC TC74HC00P IC TC74HC04P IC TC74HC04P IC TC74HC04P IC TC74HC04P IC TC74HC04P IC TC74HC054P IC TC74HC51P IC TC74HC51P IC TC74HC51P IC TC74HC51P IC TC74HC32P IC TC74HC32P	C1 to 6 C10 C11 CN801 CN802 CN803 D1 to 18 D19 to 24 D25 D26 IC1 IC2	0 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	A-7850-500-A mbly includes 1-532-824-11 1-533-189-11 1-102-942-00 1-162-851-11 1-162-851-11 1-561-899-00 1-561-655-00 1-561-655-00 8-719-911-19 8-759-107-45 8-719-911-19 8-759-926-30 T-911-163-21	the following parts.) FUSE, GLASS TUBE HOLDER, FUSE CAP, CERAMIC 5P 5% 50V CAP, CERAMIC 0.1 10% 16V CAP, CERAMIC 0.1 10% 16V CONNECTOR SOCKET, MINI 50P CONNECTOR SOCKET, MINI 9P CONNECTOR SOCKET, MINI 9P DIODE 188119 IC UPA54HA DIODE 188119 IC AM26L830PC IC MC3486P
ICB4 s ICC1 s ICC2 s ICC3 s ICD1 s ICD2 s ICD3 s ICD4 s ICD5 s ICE2 s ICE3 s ICE5 s ICE7 s ICF1 s ICF5 s ICF6 s ICF6 s ICG6 s ICG6 s ICG6 s	8-759-202-89 8-759-902-94 8-759-902-94 8-759-902-94 8-759-202-26 8-759-202-16 8-759-202-14 8-759-202-14 8-759-202-74 8-759-202-74 8-759-202-74 8-759-202-74 8-759-202-78 8-759-202-78 8-759-202-78 8-759-202-17 8-759-202-17 8-759-202-17 8-759-202-17 8-759-202-17 8-759-202-11	IC TC74HC139P IC SN74LS590N IC SN74LS590N IC TC74HC367P IC TC74HC138P IC TC74HC138P IC TC74HC00P IC TC74HC00P IC TC74HC08P IC MC74HC540N IC TC74HC04P IC TC74HC32P IC TC74HC04P IC TC74HC04P IC TC74HC04P IC TC74HC54CN IC TMPZ84C00AP-6 IC PCM3402IFF3V2.0 IC HM6264LP-15 IC TC74HC51P IC TC74HC32P IC TC74HC32P IC TC74HC32P IC TC74HC32P IC TC74HC32P IC TC74HC32P	C1 to 6 C10 C11 CN801 CN802 CN803 D1 to 18 D19 to 24 D25 D26 IC1 IC2 IC3	0 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	A-7850-500-A mbly includes 1-532-824-11 1-533-189-11 1-102-942-00 1-162-851-11 1-162-851-11 1-561-899-00 1-561-655-00 1-561-655-00 8-719-911-19 8-759-107-45 8-719-911-19 8-759-926-30 1-911-163-21 8-759-926-30	the following parts.) FUSE, GLASS TUBE HOLDER, FUSE CAP, CERAMIC 5P 5% 50V CAP, CERAMIC 0.1 10% 16V CAP, CERAMIC 0.1 10% 16V CONNECTOR SOCKET, MINI 50P CONNECTOR SOCKET, MINI 9P CONNECTOR SOCKET, MINI 9P DIODE 188119 IC UPA54HA DIODE 188119 IC AM26L830PC IC MC3486P IC AM26L830PC
ICB4 s ICC1 s ICC2 s ICC3 s ICD1 s ICD2 s ICD3 s ICD4 s ICD5 s ICE2 s ICE3 s ICE4 s ICE5 s ICE7 s ICF1 s ICF7 s ICF6 s ICF6 s ICF6 s	8-759-202-89 8-759-902-94 8-759-902-94 8-759-203-33 8-759-202-26 8-759-202-11 8-759-202-14 8-759-202-14 8-759-202-14 8-759-202-18 8-759-202-18 8-759-202-18 8-759-202-17 8-759-202-78 8-759-202-78 8-759-202-17 8-759-202-17 8-759-202-17 8-759-202-17 8-759-202-18 8-759-202-17 8-759-202-18	IC TC74HC139P IC SN74LS59ON IC SN74LS59ON IC TC74HC367P IC TC74HC138P IC TC74HC38P IC TC74HC00P IC TC74HC00P IC TC74HC04P IC TC74HC04P IC TC74HC04P IC TC74HC04P IC TC74HC32P IC TMPZ84C4OAP-6 IC TMPZ84C4OAP-6 IC TMPZ84C4OAP-6	C1 to 6 C10 C11 CN801 CN802 CN803 D1 to 18 D19 to 24 D25 D26 IC1 IC2 IC3 IC6	0 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	A-7850-500-A mbly includes 1-532-824-11 1-533-189-11 1-102-942-00 1-162-851-11 1-162-851-11 1-561-899-00 1-561-655-00 1-561-655-00 8-719-911-19 8-759-107-45 8-719-911-19 8-759-926-30 1-911-163-21 8-759-926-30	the following parts.) FUSE, GLASS TUBE HOLDER, FUSE CAP, CERAMIC 5P 5% 50V CAP, CERAMIC 0.1 10% 16V CAP, CERAMIC 0.1 10% 16V CONNECTOR SOCKET, MINI 50P CONNECTOR SOCKET, MINI 9P CONNECTOR SOCKET, MINI 9P DIODE 188119 IC UPA54HA DIODE 188119 IC AM26L830PC IC MC3486P IC AM26L830PC
ICB4 s ICC1 s ICC2 s ICC3 s ICD1 s ICD2 s ICD3 s ICD4 s ICD5 s ICE2 s ICE3 s ICE4 s ICE5 s ICE5 s ICE7 s IC	8-759-202-89 8-759-902-94 8-759-902-94 8-759-902-94 8-759-202-26 8-759-202-16 8-759-202-14 8-759-202-14 8-759-202-74 8-759-202-74 8-759-202-74 8-759-202-74 8-759-202-78 8-759-202-78 8-759-202-78 8-759-202-17 8-759-202-17 8-759-202-17 8-759-202-17 8-759-202-17 8-759-202-11	IC TC74HC139P IC SN74LS590N IC SN74LS590N IC TC74HC367P IC TC74HC138P IC TC74HC138P IC TC74HC00P IC TC74HC08P IC MC74HC540N IC TC74HC04P IC TC74HC32P IC TC74HC32P IC TC74HC34P IC TC74HC54P IC TC74HC32P IC TC74HC32P IC TC74HC32P IC TMPZ84C40AP-6 IC TMPZ84C30AP-6 IC TMPZ84C30AP-6 IC TMPZ84C30AP-6 IC TC74HC139P	C1 to 6 C10 C11 CN801 CN802 CN803 D1 to 18 D19 to 24 D25 D26 IC1 IC2 IC3 IC6 to 21	0.8 5 5 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	A-7850-500-A mbly includes 1-532-824-11 1-533-189-11 1-102-942-00 1-162-851-11 1-162-851-11 1-561-899-00 1-561-655-00 1-561-655-00 8-719-911-19 8-759-107-45 8-719-911-19 8-759-926-30 T-911-163-21 8-759-926-30 8-719-902-56	the following parts.) FUSE, GLASS TUBE HOLDER, FUSE CAP, CERAMIC 5P 5% 50V CAP, CERAMIC 0.1 10% 16V CAP, CERAMIC 0.1 10% 16V CONNECTOR SOCKET, MINI 50P CONNECTOR SOCKET, MINI 9P CONNECTOR SOCKET, MINI 9P DIODE 188119 IC UPA54HA DIODE 188119 IC AM26L830PC IC MC3486P IC AM26L830PC DIODE PC817
ICB4 s ICC1 s ICC2 s ICC3 s ICD1 s ICD2 s ICD3 s ICD4 s ICD5 s ICE2 s ICE3 s ICE5 s ICE7 s ICE7 s ICF1 s ICF5 s ICF6 s ICF6 s ICG6 s ICG6 s	8-759-202-89 8-759-902-94 8-759-902-94 8-759-902-94 8-759-202-98 8-759-202-16 8-759-202-14 8-759-202-14 8-759-202-74 8-759-202-74 8-759-202-74 8-759-202-74 8-759-202-74 8-759-202-78 8-759-202-17 8-759-202-17 8-759-202-17 8-759-202-17 8-759-202-18 8-759-202-18 8-759-202-18 8-759-202-18 8-759-208-42 8-759-208-42 8-759-208-99	IC TC74HC139P IC SN74LS590N IC SN74LS590N IC TC74HC367P IC TC74HC138P IC TC74HC138P IC TC74HC00P IC TC74HC00P IC TC74HC04P IC TC74HC04P IC TC74HC04P IC TC74HC04P IC TC74HC04P IC TC74HC054P IC TC74HC051P IC TC74HC13P IC TC74HC13P IC TC74HC13P IC TC74HC32P IC TC74HC32P IC TC74HC31P	C1 to 6 C10 C11 CN801 CN802 CN803 D1 to 18 D19 to 24 D25 D26 IC1 IC2 IC3 IC6 to 21	0 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	A-7850-500-A mbly includes 1-532-824-11 1-533-189-11 1-102-942-00 1-162-851-11 1-162-851-11 1-561-899-00 1-561-655-00 1-561-655-00 8-719-911-19 8-759-107-45 8-719-911-19 8-759-926-30 1-911-163-21 8-759-926-30 8-719-902-56	the following parts.) FUSE, GLASS TUBE HOLDER, FUSE CAP, CERAMIC 5P 5% 50V CAP, CERAMIC 0.1 10% 16V CAP, CERAMIC 0.1 10% 16V CONNECTOR SOCKET, MINI 50P CONNECTOR SOCKET, MINI 9P CONNECTOR SOCKET, MINI 9P DIODE 188119 IC UPA54HA DIODE 188119 IC AM26L830PC IC MC3486P IC AM26L830PC DIODE PC817 IC PC910
ICB4 s ICC1 s ICC2 s ICC3 s ICD1 s ICD2 s ICD3 s ICD4 s ICD5 s ICE2 s ICE3 s ICE4 s ICE5 s ICE7 s ICF1 s ICF5 s ICF6 s ICF6 s ICF6 s ICG6 s ICG6 s	8-759-202-89 8-759-902-94 8-759-902-94 8-759-203-33 8-759-202-26 8-759-202-11 8-759-202-14 8-759-202-14 8-759-202-14 8-759-202-14 8-759-202-18 8-759-202-18 8-759-202-18 8-759-202-18 8-759-202-18 8-759-202-18 8-759-202-18 8-759-202-18 8-759-202-18 8-759-202-18 8-759-202-18 8-759-202-18 8-759-202-18 8-759-202-18 8-759-202-18 8-759-202-21 8-759-208-42 8-759-208-42 8-759-208-91 8-759-208-91	IC TC74HC139P IC SN74LS59ON IC SN74LS59ON IC TC74HC367P IC TC74HC138P IC TC74HC138P IC TC74HC00P IC TC74HC00P IC TC74HC04P IC TC74HC13P IC TC74HC32P IC TC74HC32P IC TC74HC32P IC TMPZ84C00AP-6 IC PCM3402IFF3V2.0 IC HM6264LP-15 IC TC74HC31P IC TC74HC32P IC TC74HC33P IC TC74HC139P IC MC74HC74N	C1 to 6 C10 C11 CN801 CN802 CN803 D1 to 18 D19 to 24 D25 D26 IC1 IC2 IC3 IC6 to 21	0.8 5 5 6 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	A-7850-500-A mbly includes 1-532-824-11 1-533-189-11 1-102-942-00 1-162-851-11 1-162-851-11 1-561-899-00 1-561-655-00 1-561-655-00 8-719-911-19 8-759-107-45 8-719-911-19 8-759-926-30 T-911-163-21 8-759-926-30 8-719-902-56	the following parts.) FUSE, GLASS TUBE HOLDER, FUSE CAP, CERAMIC 5P 5% 50V CAP, CERAMIC 0.1 10% 16V CAP, CERAMIC 0.1 10% 16V CONNECTOR SOCKET, MINI 50P CONNECTOR SOCKET, MINI 9P CONNECTOR SOCKET, MINI 9P DIODE 188119 IC UPA54HA DIODE 188119 IC AM26L830PC IC MC3486P IC AM26L830PC DIODE PC817 IC PC910
ICB4 s ICC1 s ICC2 s ICC3 s ICD1 s ICD2 s ICD3 s ICD4 s ICD5 s ICE4 s ICE5 s ICE7 s ICE7 s ICF1 s ICF5 s ICF6 s ICF6 s ICG5 s ICG6 s ICG4 s ICG5 s ICG6 s	8-759-202-89 8-759-902-94 8-759-902-94 8-759-902-94 8-759-203-33 8-759-202-26 8-759-202-11 8-759-202-14 8-759-202-74 8-759-202-74 8-759-202-74 8-759-202-74 8-759-202-74 8-759-202-74 8-759-202-78 8-759-202-78 8-759-202-17 8-759-202-18 8-759-202-18 8-759-202-18 8-759-202-18 8-759-202-18 8-759-203-33 8-759-203-33 8-759-203-50	IC TC74HC139P IC SN74LS590N IC SN74LS590N IC TC74HC367P IC TC74HC138P IC TC74HC138P IC TC74HC00P IC TC74HC00P IC TC74HC04P IC TC74HC04P IC TC74HC04P IC TC74HC32P IC TC74HC04P IC TC74HC32P IC TC74HC32P IC TC74HC32P IC TC74HC34P IC TMPZ84C40AP-6 IC TMPZ84C30AP-6 IC TMPZ84C30AP-6 IC TC74HC34P IC TC74HC34P IC TC74HC34P IC TC74HC34P IC TC74HC34P	C1 to 6 C10 C11 CN801 CN802 CN803 D1 to 18 D19 to 24 D25 D26 IC1 IC2 IC3 IC6 to 21	0 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	A-7850-500-A mbly includes 1-532-824-11 1-533-189-11 1-102-942-00 1-162-851-11 1-162-851-11 1-561-899-00 1-561-655-00 1-561-655-00 8-719-911-19 8-759-107-45 8-719-911-19 8-759-926-30 1-911-163-21 8-759-926-30 8-719-902-56 8-719-933-26 8-719-933-26	the following parts.) FUSE, GLASS TUBE HOLDER, FUSE CAP, CERAMIC 5P 5% 50V CAP, CERAMIC 0.1 10% 16V CAP, CERAMIC 0.1 10% 16V CONNECTOR SOCKET, MINI 50P CONNECTOR SOCKET, MINI 9P CONNECTOR SOCKET, MINI 9P DIODE 188119 IC UPA54HA DIODE 188119 IC AM26L830PC IC MC3486P IC AM26L830PC DIODE PC817 IC PC910
ICB4 s ICC1 s ICC2 s ICC3 s ICD1 s ICD2 s ICD3 s ICD4 s ICD5 s ICE5 s ICE7 s ICE5 s ICE7 s ICF1 s ICF5 s ICF6 s ICF6 s ICG5 s ICG6 s ICG4 s ICG5 s ICG6 s ICG1 s ICG1 s ICG5 s ICG7 s	8-759-202-89 8-759-902-94 8-759-902-94 8-759-203-33 8-759-202-26 8-759-202-14 8-759-202-14 8-759-202-74 8-759-202-74 8-759-202-74 8-759-202-74 8-759-202-74 8-759-202-18 8-759-202-18 8-759-202-18 8-759-202-18 8-759-202-18 8-759-202-18 8-759-202-18 8-759-202-18 8-759-202-18 8-759-202-18 8-759-203-33 8-759-203-33 8-759-203-50 8-759-202-26	IC TC74HC139P IC SN74LS59ON IC SN74LS59ON IC TC74HC367P IC TC74HC138P IC TC74HC138P IC TC74HC00P IC TC74HC00P IC TC74HC04P IC TC74HC13P IC TC74HC32P IC TC74HC32P IC TC74HC32P IC TMPZ84C00AP-6 IC PCM3402IFF3V2.0 IC HM6264LP-15 IC TC74HC31P IC TC74HC32P IC TC74HC33P IC TC74HC139P IC MC74HC74N	C1 to 6 C10 C11 CN801 CN802 CN803 D1 to 18 D19 to 24 D25 D26 IC1 IC2 IC3 IC6 to 21 IC4 IC5 Q1 Q2	0.8 5 5 5 5 5 5 5 8 8 5 5 5 5 5 6 6 6 6 6	A-7850-500-A mbly includes 1-532-824-11 1-533-189-11 1-102-942-00 1-162-851-11 1-162-851-11 1-561-899-00 1-561-655-00 1-561-655-00 8-719-911-19 8-759-107-45 8-719-911-19 8-759-926-30 T-911-163-21 8-759-926-30 8-719-902-56 8-719-933-26 8-719-933-26 8-729-366-72	TUSE, GLASS TUBE HOLDER, FUSE CAP, CERAMIC 5P 5% 50V CAP, CERAMIC 0.1 10% 16V CAP, CERAMIC 0.1 10% 16V CAP, CERAMIC 0.1 10% 16V CONNECTOR SOCKET, MINI 50P CONNECTOR SOCKET, MINI 9P DIODE 188119 IC UPA54HA DIODE 188119 IC AM26L830PC IC AM26L830PC DIODE PC817 IC PC910 IC PC910
ICB4 s ICC1 s ICC2 s ICC3 s ICD1 s ICD2 s ICD3 s ICD4 s ICD5 s ICE5 s ICE7 s ICE5 s ICE7 s ICF1 s ICF5 s ICF6 s ICF6 s ICG5 s ICG6 s ICG4 s ICG5 s ICG6 s ICG1 s ICG1 s ICG5 s ICG7 s	8-759-202-89 8-759-902-94 8-759-902-94 8-759-203-33 8-759-202-26 8-759-202-14 8-759-202-14 8-759-202-74 8-759-202-74 8-759-202-74 8-759-202-74 8-759-202-74 8-759-202-18 8-759-202-18 8-759-202-18 8-759-202-18 8-759-202-18 8-759-202-18 8-759-202-18 8-759-202-18 8-759-202-18 8-759-202-18 8-759-203-33 8-759-203-33 8-759-203-50 8-759-202-26	IC TC74HC139P IC SN74LS59ON IC SN74LS59ON IC SN74LS59ON IC TC74HC367P IC TC74HC138P IC TC74HC00P IC TC74HC00P IC TC74HC04P IC TC74HC04P IC TC74HC32P IC TC74HC04P IC TC74HC04P IC TC74HC04P IC TC74HC04P IC TC74HC32P IC TC74HC32P IC TC74HC32P IC TC74HC31P IC TC74HC32P IC TC74HC31P	C1 to 6 C10 C11 CN801 CN802 CN803 D1 to 18 D19 to 24 D25 D26 IC1 IC2 IC3 IC6 to 21 IC4 IC5	0.8 5 5 5 5 5 5 5 8 8 5 5 5 5 5 6 6 6 6 6	A-7850-500-A mbly includes 1-532-824-11 1-533-189-11 1-102-942-00 1-162-851-11 1-162-851-11 1-561-899-00 1-561-655-00 1-561-655-00 8-719-911-19 8-759-107-45 8-719-911-19 8-759-926-30 T-911-163-21 8-759-926-30 8-719-902-56 8-719-933-26 8-719-933-26 8-729-366-72	TEAMSISTOR 28D667-C
ICB4 s ICC1 s ICC2 s ICC3 s ICD1 s ICD2 s ICD3 s ICD4 s ICD5 s ICE5 s ICE7 s ICE5 s ICE7 s ICF1 s ICF5 s ICF6 s ICF6 s ICG5 s ICG6 s ICG4 s ICG5 s ICG6 s ICG1 s ICG1 s ICG5 s ICG7 s	8-759-202-89 8-759-902-94 8-759-902-94 8-759-203-33 8-759-202-26 8-759-202-14 8-759-202-14 8-759-202-74 8-759-202-74 8-759-202-74 8-759-202-74 8-759-202-74 8-759-202-18 8-759-202-18 8-759-202-18 8-759-202-18 8-759-202-18 8-759-202-18 8-759-202-18 8-759-202-18 8-759-202-18 8-759-202-18 8-759-203-33 8-759-203-33 8-759-203-50 8-759-202-26	IC TC74HC139P IC SN74LS59ON IC SN74LS59ON IC SN74LS59ON IC TC74HC367P IC TC74HC138P IC TC74HC00P IC TC74HC00P IC TC74HC04P IC TC74HC04P IC TC74HC32P IC TC74HC04P IC TC74HC04P IC TC74HC04P IC TC74HC04P IC TC74HC32P IC TC74HC32P IC TC74HC32P IC TC74HC31P IC TC74HC32P IC TC74HC31P	C1 to 6 C10 C11 CN801 CN802 CN803 D1 to 18 D19 to 24 D25 D26 IC1 IC2 IC3 IC6 to 21 IC4 IC5 Q1 Q2 to 20	0 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	A-7850-500-A mbly includes 1-532-824-11 1-533-189-11 1-102-942-00 1-162-851-11 1-162-851-11 1-561-899-00 1-561-655-00 1-561-655-00 8-719-911-19 8-759-107-45 8-719-911-19 8-759-926-30 T-911-163-21 8-759-926-30 8-719-902-56 8-719-933-26 8-719-933-26 8-729-366-72	TEAMSISTOR 2SD667-C TRANSISTOR 2SC1815-GR
ICB4 s ICC1 s ICC2 s ICC3 s ICD1 s ICD2 s ICD3 s ICD4 s ICD5 s ICE5 s ICE7 s ICE5 s ICE7 s ICF1 s ICF5 s ICF6 s ICF6 s ICG5 s ICG6 s ICG4 s ICG5 s ICG6 s ICG1 s ICG1 s ICG5 s ICG7 s	8-759-202-89 8-759-902-94 8-759-902-94 8-759-203-33 8-759-202-26 8-759-202-14 8-759-202-14 8-759-202-74 8-759-202-74 8-759-202-74 8-759-202-74 8-759-202-74 8-759-202-18 8-759-202-18 8-759-202-18 8-759-202-18 8-759-202-18 8-759-202-18 8-759-202-18 8-759-202-18 8-759-202-18 8-759-202-18 8-759-203-33 8-759-203-33 8-759-203-50 8-759-202-26	IC TC74HC139P IC SN74LS59ON IC SN74LS59ON IC SN74LS59ON IC TC74HC367P IC TC74HC138P IC TC74HC00P IC TC74HC00P IC TC74HC04P IC TC74HC04P IC TC74HC32P IC TC74HC04P IC TC74HC04P IC TC74HC04P IC TC74HC04P IC TC74HC32P IC TC74HC32P IC TC74HC32P IC TC74HC31P IC TC74HC32P IC TC74HC31P	C1 to 6 C10 C11 CN801 CN802 CN803 D1 to 18 D19 to 24 D25 D26 IC1 IC2 IC3 IC6 to 21 IC4 IC5 Q1 Q2 to 20 RL1	O A S S S S S S S S S S S S S S S S S S	A-7 850-500-A mbly includes 1-532-824-11 1-533-189-11 1-102-942-00 1-162-851-11 1-162-851-11 1-561-899-00 1-561-655-00 1-561-655-00 8-719-911-19 8-759-107-45 8-719-911-19 8-759-926-30 1-911-163-21 8-759-926-30 8-719-933-26 8-719-933-26 8-719-933-26 8-729-366-72 8-729-281-53	TUSE, GLASS TUBE HOLDER, FUSE CAP, CERAMIC 5P 5% 50V CAP, CERAMIC 0.1 10% 16V CAP, CERAMIC 0.1 10% 16V CAP, CERAMIC 0.1 10% 16V CONNECTOR SOCKET, MINI 50P CONNECTOR SOCKET, MINI 9P CONNECTOR SOCKET, MINI 9P DIODE 188119 IC UPA54HA DIODE 188119 IC AM26L830PC IC MC3486P IC AM26L830PC DIODE PC817 IC PC910 IC PC910 IC PC910 TRANSISTOR 28D667-C TRANSISTOR 28C1815-GR

Ref. No.	SP	Parts No.	Description	Ref. No.	SP	Parts No.	Description
				ICD1		8-759-202-56	IC TC74HC245P
TIP_1 52	80A	D N		ICD2	8 8	8-759-203-50	IC TC74HC574P
IF-153	O		COMPLETE PCB, IF-153	ICD3	8	8-759-203-50	IC TC74HC574P
			the following parts.)	ICD4	8	8-759-107-52	IC CXQ71054P
,				ICD6	8	8-759-107-52	IC CXQ71054P
C1	8	1-102-973-00	CAP, CERAMIC 100P 5% 50V				
C2	8	1-161-485-00	CAP, CERAMIC 0.1 50V	ICD7	8	8-759-001-42	IC MC74HC174N
to 4				ICD8	8	8-759-202-55	
			01 P 0 P 1 1 F 0 V	ICD9	8	8-759-202-55	
C6	8	1-161-485-00	CAP, CERAMIC 0.1 50V	ICD10 ICD11	8 8	8-759-007-10 8-759-202-86	IC MC74HC541N IC TC74HC123P
to 8				IODII	•	0 737 202 00	10 10/4801251
C9	8	1-161-900-11	CAP, CERAMIC 1 50V	ICE1	8	8-759-203-30	IC TC74HC365P
C10	8	1-102-973-00	CAP, CERAMIC 100P 5% 50V	ICE2	8	8-759-202-93	IC TC74HC153P
C11	8	1-161-485-00	CAP, CERAMIC 0.1 50V	ICE3	8	8-759-202-93	IC TC74HC153P
C12	8	1-161-485-00	CAP, CERAMIC 0.1 50V	ICE4	8		IC TC74HC153P
C13	8	1-161-900-11	CAP, CERAMIC 1 50V	ICE5	8	8-759-202-93	
			GAD GENANTO I SOU	ICE6	8	8-/59-001-42	IC MC74HC174N
C14	8	1-161-900-11	CAP, CERAMIC 1 50V CAP, CERAMIC 100P 5% 50V	Q2	8	8-729-281-53	TRANSISTOR 2SC1815-GR
C15 C16	8 8	1-102-973-00 1-102-973-00		Ų2	•	6-729-201-33	1RANS1510R 2501019-GR
C17	8	1-161-485-00	·	R11	8	1-247-887-00	RES, CARBON 220K 5% 1/4W
C18	8	1-102-973-00	CAP, CERAMIC 100P 5% 50V	R22	8	1-215-452-00	RES, METAL 20K 17 1/6W
	_		•	R24	8	1-247-887-00	RES, CARBON 220K 5% 1/4W
C19	8	1-161-485-00	CAP, CERAMIC 0.1 50V	R31	8	1-247-885-00	RES, CARBON 180K 5% 1/4W
to 40)			R36	8	1-247-885-00	RES, CARBON 180K 5% 1/4W
C41	8	1-104-113-00		R49	8	1-249-447-11	RES, CARBON 1 5% 1/4W
C42	8	1-131-367-00	CAP, TANTALUM ELECT 22 20V	R50	8	1-249-447-11	RES, CARBON 1 5% 1/4W
040		1 1/1 /05 00	CAP. CERAMIC 0.1 50V	DD 1		1-235-005-00	RESISTOR BLOCK 47K
C43	. 8	1-101-460-00	CAP, CERAMIC 0.1 50V	RB1 RB2	8 8	1-235-005-00 1-235-005-00	RESISTOR BLOCK 47K RESISTOR BLOCK 47K
to 62	•			RB3	8	1-235-005-00	RESISTOR BLOCK 47K
C63	8	1-161-900-11	CAP, CERAMIC 1 50V		-		
C64	8	1-104-113-00		RV1	8	1-230-842-11	RES, ADJ, METAL 5K
C65	8	1-131-367-00	CAP, TANTALUM ELECT 22 20V				
C66	8	1-124-471-00		RYl	8	1-515-608-11	RELAY
C67	8	1-124-479-11					
C68	В	1-124-479-11	CAP, ELECT 330 20% 25V '				
000			•				
	•		CONNECTOR POST HEADER				
CN451	0	1-560-360-00	CONNECTOR POST HEADER,				
CN451		1-560-360-00	CONNECTOR POST HEADER, ILG (6P) CONNECTOR POST HEADER,				
			ILG (6P)				
CN451 CN908		1-560-360-00 1-560-359-00	ILG (6P) CONNECTOR POST HEADER, ILG (5P)				
CN451		1-560-360-00 1-560-359-00	ILG (6P) CONNECTOR POST HEADER,				
CN451 CN908	o 8	1-560-360-00 1-560-359-00 8-719-911-19	ILG (6P) CONNECTOR POST HEADER, ILG (5P) DIODE 188119	¥c_15	BOAD	on.	
CN451 CN908 D1 IC1	o s	1-560-360-00 1-560-359-00 8-719-911-19 8-759-981-00	ILG (6P) CONNECTOR POST HEADER, ILG (5P) DIODE 188119 IC TL081CP	KC-15			MOIINTED POR KC-15
CN451 CN908 D1 IC1 IC3	o 8 8	1-560-360-00 1-560-359-00 8-719-911-19 8-759-981-00 8-759-131-11	ILG (6P) CONNECTOR POST HEADER, ILG (5P) DIODE 188119 IC TLO81CP IC UPC311C	-	0	A-7850-504-A	MOUNTED PCB, KC-15
CN451 CN908 D1 IC1 IC3 IC4	0 8 8 8	1-560-360-00 1-560-359-00 8-719-911-19 8-759-981-00 8-759-131-11 8-759-990-82	ILG (6P) CONNECTOR POST HEADER, ILG (5P) DIODE 188119 IC TLO81CP IC UPC311C IC TLO82CP	-	0	A-7850-504-A	MOUNTED PCB, KC-15 the following parts.)
CN451 CN908 D1 IC1 IC3 IC4 IC5	0 8 8 8 8	1-560-360-00 1-560-359-00 8-719-911-19 8-759-981-00 8-759-131-11 8-759-990-82 8-759-981-00	ILG (6P) CONNECTOR POST HEADER, ILG (5P) DIODE 188119 IC TLO81CP IC UPC311C IC TLO82CP	-	0	A-7850-504-A mbly includes	
CN451 CN908 D1 IC1 IC3 IC4	0 8 8 8	1-560-360-00 1-560-359-00 8-719-911-19 8-759-981-00 8-759-131-11 8-759-990-82	ILG (6P) CONNECTOR POST HEADER, ILG (5P) DIODE 188119 IC TL081CP IC UPC311C IC TL082CP IC TL081CP	- (This	0 888	A-7850-504-A mbly includes	the following parts.)
CN451 CN908 D1 IC1 IC3 IC4 IC5	0 8 8 8 8	1-560-360-00 1-560-359-00 8-719-911-19 8-759-981-00 8-759-131-11 8-759-990-82 8-759-981-00	ILG (6P) CONNECTOR POST HEADER, ILG (5P) DIODE 188119 IC TL081CP IC UPC311C IC TL082CP IC TL081CP IC UPC311C	- (This C1 C24 C28	0 8886 8	A-7850-504-A mbly includes 1-123-661-00 1-124-138-00 1-123-661-00	the following parts.) CAP, ELECT 100 20% 6.3V CAP, ELECT 3300 20% 6.3V CAP, ELECT 100 20% 6.3V
CN451 CN908 D1 IC1 IC3 IC4 IC5 IC6	8 8 8 8 8	1-560-360-00 1-560-359-00 8-719-911-19 8-759-981-00 8-759-131-11 8-759-981-00 8-759-131-11 8-759-202-93	ILG (6P) CONNECTOR POST HEADER, ILG (5P) DIODE 188119 IC TL081CP IC UPC311C IC TL082CP IC TL081CP IC UPC311C	- (This C1 C24 C28 C29	O 8886 8 8	A-7850-504-A mbly includes 1-123-661-00 1-124-138-00 1-123-661-00 1-123-661-00	the following parts.) CAP, ELECT 100 20% 6.3V CAP, ELECT 3300 20% 6.3V CAP, ELECT 100 20% 6.3V CAP, ELECT 100 20% 6.3V
CN451 CN908 D1 IC1 IC3 IC4 IC5 IC6	O 8 8 8 8 8 8 8	1-560-360-00 1-560-359-00 8-719-911-19 8-759-981-00 8-759-131-11 8-759-981-00 8-759-131-11 8-759-202-93 8-759-202-93	ILG (6P) CONNECTOR POST HEADER, ILG (5P) DIODE 188119 IC TL081CP IC UPC311C IC TL082CP IC TL081CP IC UPC311C IC TC74HC153P IC TC74HC153P	- (This C1 C24 C28 C29 C32	O a88e s s s s	A-7850-504-A mbly includes 1-123-661-00 1-124-138-00 1-123-661-00 1-123-661-00 1-124-138-00	CAP, ELECT 100 20% 6.3V CAP, ELECT 3300 20% 6.3V CAP, ELECT 100 20% 6.3V CAP, ELECT 100 20% 6.3V CAP, ELECT 3300 20% 6.3V
CN451 CN908 D1 IC1 IC3 IC4 IC5 IC6 ICA4 ICA5	O 8 8 8 8 8 8 8	1-560-360-00 1-560-359-00 8-719-911-19 8-759-981-00 8-759-131-11 8-759-990-82 8-759-981-00 8-759-131-11 8-759-202-93 8-759-202-93 8-759-203-30	ILG (6P) CONNECTOR POST HEADER, ILG (5P) DIODE 188119 IC TL081CP IC UPC311C IC TL082CP IC TL081CP IC UPC311C IC TC74HC153P IC TC74HC153P IC TC74HC153P	- (This C1 C24 C28 C29	O 8886 8 8	A-7850-504-A mbly includes 1-123-661-00 1-124-138-00 1-123-661-00 1-123-661-00	the following parts.) CAP, ELECT 100 20% 6.3V CAP, ELECT 3300 20% 6.3V CAP, ELECT 100 20% 6.3V CAP, ELECT 100 20% 6.3V
CN451 CN908 D1 IC1 IC3 IC4 IC5 IC6 ICA4 ICA5	O 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	1-560-360-00 1-560-359-00 8-719-911-19 8-759-981-00 8-759-131-11 8-759-981-00 8-759-131-11 8-759-202-93 8-759-202-93 8-759-203-30 8-759-340-46	ILG (6P) CONNECTOR POST HEADER, ILG (5P) DIODE 188119 IC TLO81CP IC UPC311C IC TLO82CP IC TLO81CP IC UPC311C IC TC74HC153P IC TC74HC153P IC TC74HC153P IC TC74HC365P IC HD14046BP	C1 C24 C28 C29 C32 C33	O 8886 8 8 8 8	A-7850-504-A mbly includes 1-123-661-00 1-124-138-00 1-123-661-00 1-123-661-00 1-124-138-00 1-161-900-00	CAP, ELECT 100 20% 6.3V CAP, ELECT 3300 20% 6.3V CAP, ELECT 100 20% 6.3V CAP, ELECT 100 20% 6.3V CAP, ELECT 100 20% 6.3V CAP, ELECT 3300 20% 6.3V CAP, CERAMIC 1 50V
CN451 CN908 D1 IC1 IC3 IC4 IC5 IC6 ICA4 ICA5 ICB4 ICB5 ICB6	S	1-560-360-00 1-560-359-00 8-719-911-19 8-759-981-00 8-759-131-11 8-759-990-82 8-759-9131-11 8-759-202-93 8-759-202-93 8-759-340-46 8-759-202-93	ILG (6P) CONNECTOR POST HEADER, ILG (5P) DIODE 188119 IC TLO81CP IC UPC311C IC TLO81CP IC UPC311C IC TC74HC153P	C1 C24 C28 C29 C32 C33 CN422	O 8886 8 8 8 8 8 8	A-7850-504-A mbly includes 1-123-661-00 1-124-138-00 1-123-661-00 1-123-661-00 1-124-138-00 1-161-900-00 1-559-231-11	CAP, ELECT 100 20% 6.3V CAP, ELECT 3300 20% 6.3V CAP, ELECT 100 20% 6.3V CAP, ELECT 100 20% 6.3V CAP, ELECT 100 20% 6.3V CAP, ELECT 3300 20% 6.3V CAP, CERAMIC 1 50V
CN451 CN908 D1 IC1 IC3 IC4 IC5 IC6 ICA4 ICA5 ICB4 ICB6 ICB6 ICB6	O 8 8 8 8 8 8 8 8 8 8 8	1-560-360-00 1-560-359-00 8-719-911-19 8-759-981-00 8-759-131-11 8-759-981-00 8-759-131-11 8-759-202-93 8-759-202-93 8-759-202-93 8-759-202-93 8-759-202-93	ILG (6P) CONNECTOR POST HEADER, ILG (5P) DIODE 188119 IC TL081CP IC UPC311C IC TL082CP IC TL081CP IC UPC311C IC TC74HC153P IC TC74HC153P IC TC74HC153P IC TC74HC365P IC TC74HC153P	C1 C24 C28 C29 C32 C33	O 8886 8 8 8 8	A-7850-504-A mbly includes 1-123-661-00 1-124-138-00 1-123-661-00 1-123-661-00 1-124-138-00 1-161-900-00	CAP, ELECT 100 20% 6.3V CAP, ELECT 3300 20% 6.3V CAP, ELECT 100 20% 6.3V CAP, ELECT 100 20% 6.3V CAP, ELECT 100 20% 6.3V CAP, ELECT 3300 20% 6.3V CAP, CERAMIC 1 50V CABLE ASSY, KC FLAT CABLE ASSY, KC FLAT
CN451 CN908 D1 IC1 IC3 IC4 IC5 IC6 ICA4 ICA5 ICB4 ICB5 ICB6 ICB7 ICB8	8 8 8 8 8 8 8 8 8	1-560-360-00 1-560-359-00 8-719-911-19 8-759-981-00 8-759-131-11 8-759-990-82 8-759-9131-11 8-759-202-93 8-759-202-93 8-759-340-46 8-759-202-93	ILG (6P) CONNECTOR POST HEADER, ILG (5P) DIODE 188119 IC TLO81CP IC UPC311C IC TLO82CP IC TLO81CP IC UPC311C IC TC74HC153P	C1 C24 C28 C29 C32 C33 CN422 CN427	O 8886 8 8 8 8 8 8	A-7850-504-A mbly includes 1-123-661-00 1-124-138-00 1-123-661-00 1-123-661-00 1-124-138-00 1-161-900-00 1-559-231-11 1-559-231-11	CAP, ELECT 100 20% 6.3V CAP, ELECT 3300 20% 6.3V CAP, ELECT 100 20% 6.3V CAP, ELECT 100 20% 6.3V CAP, ELECT 100 20% 6.3V CAP, ELECT 3300 20% 6.3V CAP, CERAMIC 1 50V
CN451 CN908 D1 IC1 IC3 IC4 IC5 IC6 ICA4 ICA5 ICB4 ICB6 ICB6 ICB6	8 8 8 8 8 8 8 8 8	1-560-360-00 1-560-359-00 8-719-911-19 8-759-981-00 8-759-131-11 8-759-990-82 8-759-931-01 8-759-202-93 8-759-202-93 8-759-202-93 8-759-202-93 8-759-202-93 8-759-202-93	ILG (6P) CONNECTOR POST HEADER, ILG (5P) DIODE 188119 IC TLO81CP IC UPC311C IC TLO82CP IC TLO81CP IC UPC311C IC TC74HC153P	C1 C24 C28 C29 C32 C33 CN422 CN427	O 8886 8 8 8 8 8 8	A-7850-504-A mbly includes 1-123-661-00 1-124-138-00 1-123-661-00 1-123-661-00 1-124-138-00 1-161-900-00 1-559-231-11 1-559-231-11	the following parts.) CAP, ELECT 100 20% 6.3V CAP, ELECT 3300 20% 6.3V CAP, ELECT 100 20% 6.3V CAP, ELECT 100 20% 6.3V CAP, ELECT 3300 20% 6.3V CAP, CERAMIC 1 50V CABLE ASSY, KC FLAT CABLE ASSY, KC FLAT CONNECTOR POST HEADER,
CN451 CN908 D1 IC1 IC3 IC4 IC5 IC6 ICA4 ICB5 ICB6 ICB7 ICB8 ICB11	8 8 8 8 8 8 8 8 8	1-560-360-00 1-560-359-00 8-719-911-19 8-759-981-00 8-759-131-11 8-759-981-00 8-759-131-11 8-759-202-93 8-759-202-93 8-759-202-93 8-759-202-74 8-759-909-72 8-759-907-10	ILG (6P) CONNECTOR POST HEADER, ILG (5P) DIODE 188119 IC TLO81CP IC UPC311C IC TLO81CP IC UPC311C IC TC74HC153P IC TC74HC154P IC CX-7912A IC MC74HC541N	C1 C24 C28 C29 C32 C33 CN422 CN427 CN428	O 8 8 8 8 8 8 8 8 8 8 9 O O O	A-7850-504-A mbly includes 1-123-661-00 1-124-138-00 1-123-661-00 1-124-138-00 1-161-900-00 1-559-231-11 1-560-358-00	the following parts.) CAP, ELECT 100 20% 6.3V CAP, ELECT 3300 20% 6.3V CAP, ELECT 100 20% 6.3V CAP, ELECT 100 20% 6.3V CAP, ELECT 3300 20% 6.3V CAP, ELECT 3300 20% 6.3V CAP, CERAMIC 1 50V CABLE ASSY, KC FLAT CABLE ASSY, KC FLAT CONNECTOR POST HEADER, ILG (4P)
CN451 CN908 D1 IC1 IC3 IC4 IC5 IC6 ICA4 ICB5 ICB4 ICB5 ICB8 ICB1 ICC1 ICC1 ICC1	O 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	1-560-360-00 1-560-359-00 8-719-911-19 8-759-981-00 8-759-131-11 8-759-991-00 8-759-131-11 8-759-202-93 8-759-202-93 8-759-202-93 8-759-202-93 8-759-202-93 8-759-202-93 8-759-202-93 8-759-202-93 8-759-202-93 8-759-202-93	ILG (6P) CONNECTOR POST HEADER, ILG (5P) DIODE 188119 IC TLO81CP IC UPC311C IC TLO82CP IC TLO81CP IC UPC311C IC TC74HC153P IC TC74HC13P IC TC74HC13P	C1 C24 C28 C29 C32 C33 CN422 CN427 CN428 CN911	O 8886 8 8 8 8 8 9 O O O	A-7850-504-A mbly includes 1-123-661-00 1-124-138-00 1-123-661-00 1-124-138-00 1-161-900-00 1-559-231-11 1-559-231-11 1-560-358-00	CAP, ELECT 100 20% 6.3V CAP, ELECT 3300 20% 6.3V CAP, ELECT 3300 20% 6.3V CAP, ELECT 100 20% 6.3V CAP, ELECT 100 20% 6.3V CAP, ELECT 3300 20% 6.3V CAP, ELECT 3300 20% 6.3V CAP, CERAMIC 1 50V CABLE ASSY, KC FLAT CABLE ASSY, KC FLAT CONNECTOR POST HEADER, ILG (4P) CONNECTOR POST HEADER, ILG (3P)
CN451 CN908 D1 IC1 IC3 IC4 IC5 IC6 ICA4 ICA5 ICB4 ICB5 ICB6 ICB6 ICB7 ICB8 ICB11	O 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	1-560-360-00 1-560-359-00 8-719-911-19 8-759-981-00 8-759-131-11 8-759-990-82 8-759-131-11 8-759-202-93 8-759-202-93 8-759-202-93 8-759-202-93 8-759-202-93 8-759-909-72 8-759-909-72 8-759-907-10 8-759-202-26 8-759-202-26	ILG (6P) CONNECTOR POST HEADER, ILG (5P) DIODE 188119 IC TL081CP IC UPC311C IC TL082CP IC TL081CP IC UPC311C IC TC74HC153P IC TC74HC138P IC TC74HC138P	C1 C24 C28 C29 C32 C33 CN422 CN428 CN911	O a 8 8 8 8 8 8 8 8 8 9 O O O O O S	A-7850-504-A mbly includes 1-123-661-00 1-124-138-00 1-123-661-00 1-124-138-00 1-161-900-00 1-559-231-11 1-559-231-11 1-560-358-00 1-560-357-00	the following parts.) CAP, ELECT 100 20% 6.3V CAP, ELECT 3300 20% 6.3V CAP, ELECT 100 20% 6.3V CAP, ELECT 100 20% 6.3V CAP, ELECT 3300 20% 6.3V CAP, ELECT 3300 20% 6.3V CAP, CERAMIC 1 50V CABLE ASSY, KC FLAT CABLE ASSY, KC FLAT CONNECTOR POST HEADER, ILG (4P) CONNECTOR POST HEADER, ILG (3P) IC TC74HC2OP
CN451 CN908 D1 IC1 IC3 IC4 IC5 IC6 ICA4 ICB5 ICB6 ICB7 ICB8 ICB11 ICC1 ICC2 ICC3 ICC4	0 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	1-560-360-00 1-560-359-00 8-719-911-19 8-759-981-00 8-759-131-11 8-759-991-00 8-759-131-11 8-759-202-93 8-759-202-93 8-759-202-74 8-759-202-74 8-759-909-72 8-759-007-10 8-759-202-26 8-759-202-89	ILG (6P) CONNECTOR POST HEADER, ILG (5P) DIODE 188119 IC TLO81CP IC UPC311C IC TLO82CP IC TLO81CP IC UPC311C IC TC74HC153P IC TC74HC138P IC TC74HC138P IC TC74HC138P IC TC74HC138P IC TC74HC139P	C1 C24 C28 C29 C32 C32 C32 CN422 CN427 CN428 CN911	O	A-7850-504-A mbly includes 1-123-661-00 1-124-138-00 1-123-661-00 1-123-661-00 1-124-138-00 1-161-900-00 1-559-231-11 1-560-358-00 1-560-357-00 8-759-202-18 8-759-203-48	the following parts.) CAP, ELECT 100 20% 6.3V CAP, ELECT 3300 20% 6.3V CAP, ELECT 100 20% 6.3V CAP, ELECT 100 20% 6.3V CAP, ELECT 3300 20% 6.3V CAP, ELECT 3300 20% 6.3V CAP, CERAMIC 1 50V CABLE ASSY, KC FLAT CABLE ASSY, KC FLAT CONNECTOR POST HEADER, ILG (4P) CONNECTOR POST HEADER, ILG (3P) IC TC74HC20P IC TC74HC20P IC TC74HC573P
CN451 CN908 D1 IC1 IC3 IC4 IC5 IC6 ICA4 ICA5 ICB4 ICB5 ICB6 ICB6 ICB7 ICB8 ICB11	O 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	1-560-360-00 1-560-359-00 8-719-911-19 8-759-981-00 8-759-131-11 8-759-990-82 8-759-131-11 8-759-202-93 8-759-202-93 8-759-202-93 8-759-202-93 8-759-202-93 8-759-909-72 8-759-909-72 8-759-907-10 8-759-202-26 8-759-202-26	ILG (6P) CONNECTOR POST HEADER, ILG (5P) DIODE 188119 IC TL081CP IC UPC311C IC TL082CP IC TL081CP IC UPC311C IC TC74HC153P IC TC74HC138P IC TC74HC138P	C1 C24 C28 C29 C33 CN422 CN427 CN428 CN911 ICB1 ICB2 ICB3	O assets s s s s s c o O O O S s s s s s s	A-7850-504-A mbly includes 1-123-661-00 1-124-138-00 1-123-661-00 1-123-661-00 1-124-138-00 1-161-900-00 1-559-231-11 1-559-231-11 1-560-358-00 1-560-357-00 8-759-202-18 8-759-203-48 8-759-203-48	the following parts.) CAP, ELECT 100 20% 6.3V CAP, ELECT 3300 20% 6.3V CAP, ELECT 100 20% 6.3V CAP, ELECT 100 20% 6.3V CAP, ELECT 3000 20% 6.3V CAP, ELECT 3000 20% 6.3V CAP, CERAMIC 1 50V CABLE ASSY, KC FLAT CABLE ASSY, KC FLAT CONNECTOR POST HEADER, ILG (4P) CONNECTOR POST HEADER, ILG (3P) IC TC74HC20P IC TC74HC573P IC TC74HC573P
CN451 CN908 D1 IC1 IC3 IC4 IC5 IC6 ICA4 ICB5 ICB4 ICB5 ICB8 ICB11 ICC1 ICC2 ICC3 ICC4 ICC5	0 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	1-560-360-00 1-560-359-00 8-719-911-19 8-759-981-00 8-759-131-11 8-759-981-00 8-759-131-11 8-759-9202-93 8-759-202-93 8-759-202-93 8-759-202-74 8-759-909-72 8-759-909-72 8-759-202-26 8-759-202-26 8-759-202-28 8-759-202-89 8-759-340-46	ILG (6P) CONNECTOR POST HEADER, ILG (5P) DIODE 188119 IC TLO81CP IC UPC311C IC TLO82CP IC TLO81CP IC UPC311C IC TC74HC153P IC TC74HC138P IC TC74HC138P IC TC74HC138P IC TC74HC139P IC TC74HC139P IC HD14046BP	C1 C24 C28 C29 C32 C33 CN422 CN427 CN428 CN911 ICB1 ICB2 ICB3 ICB4	O	A-7 850-504-A mbly includes 1-123-661-00 1-124-138-00 1-123-661-00 1-124-138-00 1-161-900-00 1-559-231-11 1-560-358-00 1-560-357-00 8-759-202-18 8-759-203-48 8-759-000-99	the following parts.) CAP, ELECT 100 20% 6.3V CAP, ELECT 3300 20% 6.3V CAP, ELECT 100 20% 6.3V CAP, ELECT 100 20% 6.3V CAP, ELECT 3300 20% 6.3V CAP, ELECT 3300 20% 6.3V CAP, CERAMIC 1 50V CABLE ASSY, KC FLAT CONNECTOR POST HEADER, ILG (4P) CONNECTOR POST HEADER, ILG (3P) IC TC74HC20P IC TC74HC573P IC MC74HC74N
CN451 CN908 D1 IC1 IC3 IC4 IC5 IC6 ICA4 ICB5 ICB6 ICB7 ICB8 ICB11 ICC1 ICC2 ICC3 ICC4 ICC5 ICC4 ICC5	0 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	1-560-360-00 1-560-359-00 8-719-911-19 8-759-981-00 8-759-131-11 8-759-990-82 8-759-931-11 8-759-202-93 8-759-202-93 8-759-202-93 8-759-202-93 8-759-202-74 8-759-909-72 8-759-909-72 8-759-202-26 8-759-202-89 8-759-202-89 8-759-202-89 8-759-202-89 8-759-203-50	ILG (6P) CONNECTOR POST HEADER, ILG (5P) DIODE 188119 IC TLO81CP IC UPC311C IC TLO82CP IC TLO81CP IC UPC311C IC TC74HC153P IC TC74HC153P IC TC74HC153P IC TC74HC153P IC TC74HC153P IC TC74HC04P IC CX-7912A IC MC74HC541N IC TC74HC138P IC TC74HC138P IC TC74HC139P IC TC74HC139P IC TC74HC139P IC TC74HC139P IC TC74HC139P IC HD14046BP IC TC74HC139P IC TC74HC139P IC HD14046BP	C1 C24 C28 C29 C33 CN422 CN427 CN428 CN911 ICB1 ICB2 ICB3	O assess s s s s s s s s s s s s s s s s	A-7850-504-A mbly includes 1-123-661-00 1-124-138-00 1-123-661-00 1-123-661-00 1-124-138-00 1-161-900-00 1-559-231-11 1-559-231-11 1-560-358-00 1-560-357-00 8-759-202-18 8-759-203-48 8-759-203-48	the following parts.) CAP, ELECT 100 20% 6.3V CAP, ELECT 3300 20% 6.3V CAP, ELECT 100 20% 6.3V CAP, ELECT 100 20% 6.3V CAP, ELECT 3000 20% 6.3V CAP, ELECT 3000 20% 6.3V CAP, CERAMIC 1 50V CABLE ASSY, KC FLAT CABLE ASSY, KC FLAT CONNECTOR POST HEADER, ILG (4P) CONNECTOR POST HEADER, ILG (3P) IC TC74HC20P IC TC74HC573P IC TC74HC573P
CN451 CN908 D1 IC1 IC3 IC4 IC5 IC6 ICA4 ICB5 ICB6 ICB7 ICB8 ICB11 ICC1 ICC2 ICC3 ICC4 ICC5	0 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	1-560-360-00 1-560-359-00 8-719-911-19 8-759-981-00 8-759-131-11 8-759-981-00 8-759-131-11 8-759-9202-93 8-759-202-93 8-759-202-93 8-759-202-74 8-759-909-72 8-759-909-72 8-759-202-26 8-759-202-26 8-759-202-28 8-759-202-89 8-759-340-46	ILG (6P) CONNECTOR POST HEADER, ILG (5P) DIODE 188119 IC TLO81CP IC UPC311C IC TLO82CP IC TLO81CP IC UPC311C IC TC74HC153P IC TC74HC138P IC TC74HC138P IC TC74HC138P IC TC74HC138P IC TC74HC139P IC HD14046BP IC TC74HC574P IC TC74HC574P	C1 C24 C28 C29 C32 C33 CN422 CN427 CN428 CN911 ICB1 ICB2 ICB3 ICB4 ICB5 ICC1	O assess s s s s s s s s s s s s s s s s	A-7 850-504-A mbly includes 1-123-661-00 1-124-138-00 1-123-661-00 1-124-138-00 1-161-900-00 1-559-231-11 1-560-358-00 1-560-357-00 8-759-202-18 8-759-203-48 8-759-000-99	the following parts.) CAP, ELECT 100 20% 6.3V CAP, ELECT 3300 20% 6.3V CAP, ELECT 100 20% 6.3V CAP, ELECT 100 20% 6.3V CAP, ELECT 3300 20% 6.3V CAP, ELECT 3300 20% 6.3V CAP, CERAMIC 1 50V CABLE ASSY, KC FLAT CONNECTOR POST HEADER, ILG (4P) CONNECTOR POST HEADER, ILG (3P) IC TC74HC20P IC TC74HC573P IC MC74HC74N
CN451 CN908 D1 IC1 IC3 IC4 IC5 IC6 ICA4 ICB5 ICB6 ICB7 ICB8 ICB11 ICC1 ICC2 ICC3 ICC4 ICC5 ICC4 ICC5		1-560-360-00 1-560-359-00 8-719-911-19 8-759-981-00 8-759-131-11 8-759-981-00 8-759-131-11 8-759-202-93 8-759-202-93 8-759-202-74 8-759-202-74 8-759-202-26 8-759-202-26 8-759-202-26 8-759-202-89 8-759-202-89 8-759-340-46	ILG (6P) CONNECTOR POST HEADER, ILG (5P) DIODE 188119 IC TLO81CP IC UPC311C IC TLO82CP IC TLO81CP IC UPC311C IC TC74HC153P IC TC74HC138P IC TC74HC138P IC TC74HC138P IC TC74HC138P IC TC74HC139P IC HD14046BP IC TC74HC574P IC TC74HC574P	C1 C24 C28 C29 C32 C33 CN422 CN427 CN428 CN911 ICB1 ICB2 ICB3 ICB4 ICB5 ICC1 ICC2	O assess	A-7 850-504-A mbly includes 1-123-661-00 1-124-138-00 1-123-661-00 1-124-138-00 1-124-138-00 1-161-900-00 1-559-231-11 1-559-231-11 1-560-358-00 1-560-357-00 8-759-202-18 8-759-203-48 8-759-203-48 8-759-203-26 8-759-202-26	the following parts.) CAP, ELECT 100 20% 6.3V CAP, ELECT 3300 20% 6.3V CAP, ELECT 100 20% 6.3V CAP, ELECT 100 20% 6.3V CAP, ELECT 3300 20% 6.3V CAP, ELECT 3300 20% 6.3V CAP, CERAMIC 1 50V CABLE ASSY, KC FLAT CONNECTOR POST HEADER, ILG (4P) CONNECTOR POST HEADER, ILG (3P) IC TC74HC20P IC TC74HC573P IC TC74HC573P IC MC74HC74N IC TC74HC138P IC TC74HC86P IC MC74HC164N
CN451 CN908 D1 IC1 IC3 IC4 IC5 IC6 ICA4 ICB5 ICB6 ICB7 ICB8 ICB11 ICC1 ICC2 ICC2 ICC4 ICC5 ICC6 ICC4 ICC5	0 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	1-560-360-00 1-560-359-00 8-719-911-19 8-759-981-00 8-759-131-11 8-759-990-82 8-759-931-11 8-759-202-93 8-759-202-93 8-759-202-93 8-759-202-74 8-759-909-72 8-759-909-72 8-759-202-26 8-759-202-26 8-759-202-26 8-759-203-50 8-759-203-50 8-759-203-50 8-759-901-89 8-759-901-89 8-759-901-89 8-759-902-21	ILG (6P) CONNECTOR POST HEADER, ILG (5P) DIODE 188119 IC TLO81CP IC UPC311C IC TLO82CP IC TLO81CP IC UPC311C IC TC74HC153P IC TC74HC153P IC TC74HC153P IC TC74HC153P IC TC74HC153P IC TC74HC153P IC TC74HC04P IC CX-7912A IC MC74HC541N IC TC74HC138P IC TC74HC138P IC TC74HC139P IC TC74HC139P IC TC74HC139P IC TC74HC139P IC TC74HC574P IC TC74HC574P IC TC74HC574P IC TC74HC574P IC SN74LS189AN IC SN74LS189AN IC TC74HC32P	C1 C24 C28 C29 C32 C33 CN422 CN427 CN428 CN911 ICB1 ICB2 ICB3 ICB4 ICB5 ICC1 ICC2 ICC5	O assess	A-7 850-504-A mbly includes 1-123-661-00 1-124-138-00 1-123-661-00 1-124-138-00 1-161-900-00 1-559-231-11 1-559-231-11 1-560-358-00 1-560-357-00 8-759-202-18 8-759-203-48 8-759-203-48 8-759-203-48 8-759-202-26 8-759-202-26	the following parts.) CAP, ELECT 100 20% 6.3V CAP, ELECT 3300 20% 6.3V CAP, ELECT 100 20% 6.3V CAP, ELECT 100 20% 6.3V CAP, ELECT 3300 20% 6.3V CAP, ELECT 3300 20% 6.3V CAP, ELECT 3300 20% 6.3V CAP, CERAMIC 1 50V CABLE ASSY, KC FLAT CABLE ASSY, KC FLAT CONNECTOR POST HEADER, ILG (4P) CONNECTOR POST HEADER, ILG (3P) IC TC74HC20P IC TC74HC573P IC TC74HC573P IC MC74HC74N IC TC74HC138P IC TC74HC86P IC MC74HC164N IC TC74HC138P
CN451 CN908 D1 IC1 IC3 IC4 IC5 IC6 ICA4 IC85 ICB4 ICB7 ICB8 ICB11 ICC1 ICC2 ICC3 ICC4 ICC5 ICC5 ICC5 ICC6 ICC5 ICC6 ICC7 ICC8 ICC7 ICC8 ICC7	0 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	1-560-360-00 1-560-359-00 8-719-911-19 8-759-981-00 8-759-131-11 8-759-981-00 8-759-313-11 8-759-9020-93 8-759-202-93 8-759-202-93 8-759-202-74 8-759-202-74 8-759-909-72 8-759-202-26 8-759-202-26 8-759-203-30 8-759-340-46 8-759-203-50 8-759-340-48 8-759-203-50 8-759-901-89 8-759-901-89	ILG (6P) CONNECTOR POST HEADER, ILG (5P) DIODE 188119 IC TLO81CP IC UPC311C IC TLO82CP IC TLO81CP IC UPC311C IC TC74HC153P IC TC74HC138P IC TC74HC139P IC HD14046BP IC TC74HC574P IC TC74HC574P IC TC74HC574P IC SN74LS189AN IC SN74LS189AN	C1 C24 C28 C29 C32 C33 CN422 CN427 CN428 CN911 ICB1 ICB2 ICB3 ICB4 ICB5 ICC1 ICC2	O assets s s s s s s s s s s s s s s s s s	A-7 850-504-A mbly includes 1-123-661-00 1-124-138-00 1-123-661-00 1-124-138-00 1-124-138-00 1-161-900-00 1-559-231-11 1-559-231-11 1-560-358-00 1-560-357-00 8-759-202-18 8-759-203-48 8-759-203-48 8-759-203-26 8-759-202-26	the following parts.) CAP, ELECT 100 20% 6.3V CAP, ELECT 3300 20% 6.3V CAP, ELECT 100 20% 6.3V CAP, ELECT 100 20% 6.3V CAP, ELECT 3300 20% 6.3V CAP, ELECT 3300 20% 6.3V CAP, CERAMIC 1 50V CABLE ASSY, KC FLAT CONNECTOR POST HEADER, ILG (4P) CONNECTOR POST HEADER, ILG (3P) IC TC74HC20P IC TC74HC573P IC TC74HC573P IC MC74HC74N IC TC74HC138P IC TC74HC86P IC MC74HC164N
CN451 CN908 D1 IC1 IC3 IC4 IC5 IC6 ICA4 ICB5 ICB6 ICB7 ICB8 ICB11 ICC1 ICC2 ICC3 ICC4 ICC5 ICC6 ICC7 ICC8 ICC6 ICC7 ICC8 ICC9 ICC9 ICC9 ICC9 ICC10	0 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	1-560-360-00 1-560-359-00 8-719-911-19 8-759-981-00 8-759-131-11 8-759-990-82 8-759-931-11 8-759-202-93 8-759-202-93 8-759-202-93 8-759-202-74 8-759-909-72 8-759-909-72 8-759-202-26 8-759-202-26 8-759-202-26 8-759-203-50 8-759-203-50 8-759-203-50 8-759-901-89 8-759-901-89 8-759-901-89 8-759-901-89 8-759-902-21	ILG (6P) CONNECTOR POST HEADER, ILG (5P) DIODE 188119 IC TLO81CP IC UPC311C IC TLO82CP IC TLO81CP IC UPC311C IC TC74HC153P IC TC74HC153P IC TC74HC153P IC TC74HC153P IC TC74HC153P IC TC74HC153P IC TC74HC04P IC CX-7912A IC MC74HC541N IC TC74HC138P IC TC74HC138P IC TC74HC139P IC TC74HC139P IC TC74HC139P IC TC74HC139P IC TC74HC574P IC TC74HC574P IC TC74HC574P IC TC74HC574P IC SN74LS189AN IC SN74LS189AN IC TC74HC32P	C1 C24 C28 C29 C32 C33 CN422 CN427 CN428 CN911 CB1 LCB3 LCB4 LCB5 LCC1 LCC2 LCC5 LCD4	O asses	A-7 850-504-A mbly includes 1-123-661-00 1-124-138-00 1-123-661-00 1-124-138-00 1-124-138-00 1-161-900-00 1-559-231-11 1-560-358-00 1-560-357-00 8-759-202-18 8-759-203-48 8-759-203-48 8-759-203-48 8-759-202-26 8-759-202-26 8-759-202-26 8-759-202-26 8-759-202-26 8-759-209-05	the following parts.) CAP, ELECT 100 20% 6.3V CAP, ELECT 3300 20% 6.3V CAP, ELECT 100 20% 6.3V CAP, ELECT 100 20% 6.3V CAP, ELECT 100 20% 6.3V CAP, ELECT 3300 20% 6.3V CAP, CERAMIC 1 50V CABLE ASSY, KC FLAT CABLE ASSY, KC FLAT CONNECTOR POST HEADER, ILG (4P) CONNECTOR POST HEADER, ILG (3P) IC TC74HC20P IC TC74HC573P IC TC74HC573P IC TC74HC138P IC TC74HC138P IC TC74HC138P IC TC74HC138P IC TC74HC138P IC TC74HC138P IC TMP82C79P-2
CN451 CN908 D1 IC1 IC3 IC4 IC5 IC6 ICA4 ICB5 ICB6 ICB7 ICB8 ICB11 ICC1 ICC2 ICC3 ICC4 ICC5 ICC6 ICC7 ICC8 ICC6 ICC7 ICC8 ICC9 ICC9 ICC9 ICC9 ICC10	0 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	1-560-360-00 1-560-359-00 8-719-911-19 8-759-981-00 8-759-131-11 8-759-990-82 8-759-931-11 8-759-202-93 8-759-202-93 8-759-202-93 8-759-202-74 8-759-909-72 8-759-909-72 8-759-202-26 8-759-202-26 8-759-202-26 8-759-203-50 8-759-203-50 8-759-203-50 8-759-901-89 8-759-901-89 8-759-901-89 8-759-901-89 8-759-902-21	ILG (6P) CONNECTOR POST HEADER, ILG (5P) DIODE 188119 IC TLO81CP IC UPC311C IC TLO82CP IC TLO81CP IC UPC311C IC TC74HC153P IC TC74HC153P IC TC74HC153P IC TC74HC153P IC TC74HC153P IC TC74HC153P IC TC74HC04P IC CX-7912A IC MC74HC541N IC TC74HC138P IC TC74HC138P IC TC74HC139P IC TC74HC139P IC TC74HC139P IC TC74HC139P IC TC74HC574P IC TC74HC574P IC TC74HC574P IC TC74HC574P IC SN74LS189AN IC SN74LS189AN IC TC74HC32P	C1 C24 C28 C29 C32 C33 CN422 CN427 CN428 CN911 ICB1 ICB2 ICB3 ICB4 ICB5 ICC1 ICC2 ICC5 ICD4 ICE2	O assess	A-7 850-504-A mbly includes 1-123-661-00 1-124-138-00 1-123-661-00 1-124-138-00 1-124-138-00 1-161-900-00 1-559-231-11 1-560-358-00 1-560-357-00 8-759-202-18 8-759-203-48 8-759-203-48 8-759-203-48 8-759-202-26 8-759-202-26 8-759-202-26 8-759-202-26 8-759-203-48	the following parts.) CAP, ELECT 100 20% 6.3V CAP, ELECT 3300 20% 6.3V CAP, ELECT 100 20% 6.3V CAP, ELECT 100 20% 6.3V CAP, ELECT 100 20% 6.3V CAP, ELECT 3300 20% 6.3V CAP, CERAMIC 1 50V CABLE ASSY, KC FLAT CONNECTOR POST HEADER, ILG (4P) CONNECTOR POST HEADER, ILG (3P) IC TC74HC20P IC TC74HC573P IC TC74HC573P IC TC74HC138P IC TC74HC138P IC TC74HC164N IC TC74HC138P IC TMP82C79P-2 IC TC74HC573P
CN451 CN908 D1 IC1 IC3 IC4 IC5 IC6 ICA4 ICB5 ICB6 ICB7 ICB8 ICB11 ICC1 ICC2 ICC3 ICC4 ICC5 ICC6 ICC7 ICC8 ICC6 ICC7 ICC8 ICC9 ICC9 ICC9 ICC9 ICC10	0 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	1-560-360-00 1-560-359-00 8-719-911-19 8-759-981-00 8-759-131-11 8-759-990-82 8-759-931-11 8-759-202-93 8-759-202-93 8-759-202-93 8-759-202-74 8-759-909-72 8-759-909-72 8-759-202-26 8-759-202-26 8-759-202-26 8-759-203-50 8-759-203-50 8-759-203-50 8-759-901-89 8-759-901-89 8-759-901-89 8-759-901-89 8-759-902-21	ILG (6P) CONNECTOR POST HEADER, ILG (5P) DIODE 188119 IC TLO81CP IC UPC311C IC TLO82CP IC TLO81CP IC UPC311C IC TC74HC153P IC TC74HC153P IC TC74HC153P IC TC74HC153P IC TC74HC153P IC TC74HC153P IC TC74HC04P IC CX-7912A IC MC74HC541N IC TC74HC138P IC TC74HC138P IC TC74HC139P IC TC74HC139P IC TC74HC139P IC TC74HC139P IC TC74HC574P IC TC74HC574P IC TC74HC574P IC TC74HC574P IC SN74LS189AN IC SN74LS189AN IC TC74HC32P	C1 C24 C28 C29 C32 C33 CN422 CN427 CN428 CN911 CB1 LCB3 LCB4 LCB5 LCC1 LCC2 LCC5 LCD4	O assess s s s s s s s s s s s s s s s s	A-7 850-504-A mbly includes 1-123-661-00 1-124-138-00 1-123-661-00 1-124-138-00 1-124-138-00 1-161-900-00 1-559-231-11 1-560-358-00 1-560-357-00 8-759-202-18 8-759-203-48 8-759-203-48 8-759-203-48 8-759-202-26 8-759-202-26 8-759-202-26 8-759-202-26 8-759-202-26 8-759-209-05	the following parts.) CAP, ELECT 100 20% 6.3V CAP, ELECT 3300 20% 6.3V CAP, ELECT 100 20% 6.3V CAP, ELECT 100 20% 6.3V CAP, ELECT 100 20% 6.3V CAP, ELECT 3300 20% 6.3V CAP, CERAMIC 1 50V CABLE ASSY, KC FLAT CABLE ASSY, KC FLAT CONNECTOR POST HEADER, ILG (4P) CONNECTOR POST HEADER, ILG (3P) IC TC74HC20P IC TC74HC573P IC TC74HC573P IC TC74HC138P IC TC74HC138P IC TC74HC138P IC TC74HC138P IC TC74HC138P IC TC74HC138P IC TMP82C79P-2

Ref.				Ref.		_	
NO.	SP	Parts No.	Description	No.	SP	Parts No.	Description
ICF2	8	8-759-202-26	IC TC74HC138P	KSW-8	BOAR	D CD	
ICF4	8	8-759-209-05	IC TMP82C79P-2	-			MOUNTED PCB, KSW-8
ICF5	8	8-759-202-21	IC TC74HC32P	(This	8886	mbly includes	the following parts.)
ICF6	8	8-759-202-74	IC TC74HCO4P				
				D15	8	8-719-911-19	DIODE 1SS119
ICG2	8	8-759-202-26	IC TC74HC138P	to 44	ŀ		
ICG4	8	8-759-202-56	IC TC74HC245P				
ICG5	8	8-759-203-48	IC TC74HC573P	SW1	8	1-554-041-11	SWITCH, PUSH
ICG6	8	8-759-202-21	IC TC74HC32P	to 8			
				~~~			
Ll	8	1-409-309-00	COIL, SN 72UH	SW9	8		SWITCH, PUSH
				SW10	8		SWITCH, PUSH
Q1		8-729-206-56	TRANSISTOR 2SC3072-C	SW11	8		SWITCH, PUSH
to 14	•			SW12	8		SWITCH, PUSH
				SW13	8	1-5/1-063-91	SWITCH, PUSH
Q15	6		TRANSISTOR 28C1815-GR	~***			
Q16	8	8-729-206-11	TRANSISTOR 2SA1244-Y	SW14	8		SWITCH, PUSH
to 22	!			SW15	8		SWITCH, PUSH
				SW16	8		SWITCH, PUSH
Q23	8	8-729-206-56	TRANSISTOR 2SC3072-C	SW17	8		SWITCH, PUSH
to 30	)			SW18	8	1-3/0-212-/1	SWITCH, PUSH
Q31	8	8-729-206-11	TRANSISTOR 2SA1244-Y	SW19	8	1-570-212-41	SWITCH, PUSH
to 46	;			SW20	8	1-570-212-11	SWITCH, PUSH
				SW 21	8	1-571-063-31	SWITCH, PUSH
Q47	8	8-729-281-53	TRANSISTOR 2SC1815-GR	SW 2 2	8	1-571-063-71	SWITCH, PUSH
Q48	8	8-729-281-53		SW 23	8	1-571-063-21	SWITCH, PUSH
_				5W24	_	1 571 062 61	CHITTON MICH
RB1	8	1-235-005-00	RESISTOR BLOCK 47K	SW25	8		SWITCH, PUSH SWITCH, PUSH
to 4				SW 26	8		
				SW 27	В		SWITCH, PUSH
				SW 2 8	8	1-571-063-81	
				5W28	s	1-571-063-11	SWITCH, PUSH
				SW 2 9	8	1-571-063-51	SWITCH, PUSH
				sw30	8	1-554-041-11	SWITCH, PUSH

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KEY-7 BOARD
- 0 1-620-327-11 PC BOARD, KEY-7
(This assembly includes the following parts.)
               4-920-573-01 FILM, PLAY BUTTON
4-920-574-01 FILM, STOP BUTTON
4-920-575-01 FILM, REC BUTTON
4-920-572-01 FILM, FFWD BUTTON
D1
          s 8-719-911-19 DIODE 188119
 to 7
R1
               1-246-458-00 RES, CARBON 240 5% 1/4W
SW1
                1-571-127-21
                                    SWITCH
SW 2
                1-571-127-21 SWITCH
                1-571-127-21 SWITCH
SW3
                1-571-127-21 SWITCH
SW 4
                1-571-127-11 SWITCH
SW 5
               1-571-127-21 SWITCH
1-571-126-11 SWITCH
SW6
SW7
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o A-7850-489-A MOUNTED PCB, MA-24
(This assembly includes the following parts.)
           3-621-124-00 SPACER
Cl
              1-161-485-00 CAP, CERAMIC 0.1
                                                              50 V
             1-161-485-00 CAP, CERAMIC 0.1 50V
1-124-786-11 CAP, ELECT 22 20X 35V
1-161-485-00 CAP, CERAMIC 0.1 50V
1-102-128-00 CAP, CERAMIC 0.0082 10X 50V
C2
         8
C3
         8
C4
                               CAP, ELECT 22
CAP, CERAMIC 0.1
C6
         8
              1-124-786-11
                                                         20% 35V
C7
              1-161-485-00
                                                              50 V
         8
                               CAP, METAL 0.22
CAP, CERAMIC 0.1
C8
              1-136-169-00
                                                          5% 50 V
C9
              1-161-485-00
                                                              50 V
                               CAP, METAL 0.22
CAP, KLECT 22
C10
              1-136-169-00
                                                          5% 50 V
             1-124-786-11
C11
                                                        20% 35V
CN318 o 1-560-369-00
                               CONNECTOR POST HEADER.
                                  ILG (8P)
CN321 o 1-560-365-00 CONNECTOR POST HEADER,
                                  ILG (3P)
CN322 o 1-562-846-11 CONNECTOR 5P
              8-719-911-19 DIODE 1SS119
             8-719-911-19 DIODE 188119
8-719-911-19 DIODE 188119
D2
D3
ICI
             8-759-910-83 IC TL072ACP
IC2
             8-759-112-38 IC UPC1238V
             8-759-000-99 IC MC74HC74N
8-759-202-17 IC TC74HC14P
IC3
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Ref.
Ref.
                                                                                          SP Parts No.
                                                                                                                Description
        SP Parts No.
                               Description
                                                                                 No.
        s 1-409-309-00 COIL, SN 72UH
                                                                                          s 1-102-963-00 CAP, CERAMIC 33P 5% 50V
                                                                                 C12
Ll
                                                                                  to 14
             8-729-366-72 TRANSISTOR 2SD667-C
8-729-366-72 TRANSISTOR 2SD667-C
                                                                                                                                1500p 5%
Q2
                                                                                 C15
                                                                                               1-108-794-71 CAP, FILM
                                                                                                                                             50 V
                                                                                               1-101-880-00 CAP, CERAMIC 47P 5%
                                                                                 C16
             1-247-688-11 RES, CARBON 10 5% 1/4W
1-247-688-11 RES, CARBON 10 5% 1/4W
1-214-803-00 RES, METAL 3 1% 1/2W
R5
                                                                                 C17
                                                                                          8
                                                                                               1-161-900-11 CAP, CERAMIC 1
                                                                                                                                              50 V
                                                                                               1-102-116-00 CAP, CERAMIC 680P 10%
R10
         8
                                                                                 C18
                                                                                                                                             50 V
                                                                                               1-161-900-11 CAP, CERAMIC 1
                                                                                 C19
R11
                                                                                                                                              50 V
             1-515-608-11 RELAY
1-515-608-11 RELAY
                                                                                 C20
                                                                                               1-136-177-00 CAP, METAL
                                                                                               1-102-820-00 CAP, CERAMIC 330P 5%
RL2
                                                                                 C21
                                                                                          8
                                                                                                                                             50 V
                                                                                               1-102-963-00 CAP, CERAMIC 33P
1-102-820-00 CAP, CERAMIC 330P
1-102-963-00 CAP, CERAMIC 33P
                                                                                 C22
                                                                                                                                             50 V
         s 1-237-673-11 RES, VAR, CARBON 5K
RV1
                                                                                 C23
                                                                                                                                        5%
                                                                                                                                             50 V
                                                                                 C24
                                                                                                                                              50 V
                                                                                 C25
                                                                                               1-102-820-00 CAP, CERAMIC 330P
                                                                                                                                        5%
                                                                                                                                              50 V
                                                                                               1-102-963-00 CAP, CERAMIC 33P
1-161-900-11 CAP, CERAMIC 1
1-136-177-00 CAP, METAL 1
                                                                                 C26
                                                                                          8
                                                                                                                                             50 V
                                                                                  C27
                                                                                                                                              50 V
                                                                                                                                              50 V
                                                                                  C31
                                                                                               1-162-179-11 CAP, CERAMIC 0.1
                                                                                 C32
                                                                                               1-162-179-11 CAP, CERAMIC 0.1
                                                                                                                                              50 V
                                                                                              1-161-900-11 CAP, CERAMIC 1
1-162-179-11 CAP, CERAMIC 0.1
                                                                                  C33
                                                                                                                                              50 V
MA-25 BOARD
                                                                                  C34
                                                                                                                                              50 V
       o 1-620-331-11 PC BOARD, MA-25
                                                                                 C35
                                                                                               1-162-179-11 CAP, CERAMIC 0.1
 (This assembly includes the following parts.)
                                                                                 C72
                                                                                          8
                                                                                               1-162-179-11 CAP, CERAMIC 0.1
                                                                                                                                              50 V
      o 1-560-447-00 CONNECTOR (M) 5P
                                                                                  C73
                                                                                              1-162-179-11 CAP, CERAMIC 0.1
                                                                                                                                              50 V
                                                                                  C82
                                                                                                1-162-179-11 CAP, CERAMIC 0.1
                                                                                                                                              50 V
 SW1 8 1-554-041-11 SWITCH, PUSH
SW2 8 1-554-041-11 SWITCH, PUSH
                                                                                 C83
                                                                                               1-162-179-11 CAP, CERAMIC 0.1
                                                                                                                                              50 V
                                                                                 C92
                                                                                               1-162-179-11 CAP, CERAMIC 0.1
                                                                                                                                              50 V
                                                                                 C93
                                                                                               1-162-179-11 CAP, CERAMIC 0.1
                                                                                                                                              50 V
                                                                                  C94
                                                                                                1-162-179-11 CAP, CERAMIC 0.1
                                                                                                                                              50 V
                                                                                  C95
                                                                                          8
                                                                                               1-162-179-11 CAP, CERAMIC 0.1
                                                                                                                                              50 V
                                                                                               1-162-179-11 CAP, CERAMIC 0.1
                                                                                  C104
                                                                                          8
                                                                                                                                              50 V
                                                                                               1-162-179-11 CAP, CERAMIC 0.1
1-162-179-11 CAP, CERAMIC 0.1
                                                                                  C105
                                                                                                                                              50 V
                                                                                                                                              50 V
                                                                                  C141
                                                                                               1-162-179-11 CAP, CERAMIC 0.1
                                                                                                                                             50 V
                                                                                               1-124-477-11 CAP, ELECT 47 20%
                                                                                  C142
                                                                                                                                             25 V
                                                                                                                                330 20% 25V
330 20% 25V
 MB-143 BOARD
                                                                                  C143
                                                                                                1-124-479-11
                                                                                                                CAP, ELECT
 - 0 A-7850-501-A MOUNTED PCB, MB-143 (This assembly includes the following parts.)
                                                                                  C144
                                                                                                1-124-479-11
                                                                                                                CAP, ELECT
                                                                                 C145
                                                                                               1-124-471-00 CAP, ELECT
                                                                                                                                 1000 20% 6.3V
                                                                                              1-124-471-00 CAP, ELECT
                                                                                 C146
                                                                                                                               1000 20% 6.3V
 CN18 o 1-560-360-00 CONNECTOR POST HEADER,
                               ILG (6P)
CONNECTOR, PC BOARD 3P
CONNECTOR 4P
                                                                                 D1
                                                                                         s 8-719-921-20 DIODE 1SS119TD
            1-560-723-00
                                                                                  to 6
 CN901 o
 CN902 o 1-560-177-00
                               CONNECTOR 4P
              1-560-177-00
 CN903 o
                                                                                 D7
                                                                                         s 8-719-949-33 DIODE FC53M-4
                                                                                  to 12
            1-560-177-00
                               CONNECTOR 4P
 CN904 o
                                                                                               8-719-921-20 DIODE 188119TD
8-719-927-77 DIODE KV1230Z
                                                                                 D13
                                                                                 D14
                                                                                               8-719-921-20 DIODE 1SS119TD
                                                                                 D15
                                                                                  to 20
                                                                                 IC1
                                                                                               8-759-981-00 IC TL081CP
                                                                                               8-759-131-11 IC UPC311C
                                                                                 IC2
                                                                                               8-759-990-84 IC TL084CN
8-759-990-82 IC TL082CP
                                                                                 IC3
 MCK-1 BOARD
                                                                                 IC5
                                                                                               8-759-990-82 IC TL082CP
         o A-7850-470-A COMPLETE PCB, MCK-1
 (This assembly includes the following parts.)
                                                                                 IC7
                                                                                          8 8-759-202-11 IC TC74HC00P
8 8-759-202-11 IC TC74HC00P
                                                                                 IC8
               1-561-832-00 SOCKET, SHORT
2-251-622-11 LEVER, PC BOARD
                                                                                 ICA2
                                                                                               8-759-203-50 IC TC74HC574P
                                                                                               8-759-203-50 IC TC74HC574P
8-759-202-26 IC TC74HC138P
8-759-202-26 IC TC74HC138P
8-759-203-30 IC TC74HC365P
                                                                                 ICA3
                                CAP, CERAMIC 2P
               1-102-935-00
                                                             50 V
                                                                                         8
 CI
                                                                                 ICA4
               1-102-935-00
                                CAP, CERAMIC 2P
                                                             50 V
  C2
                                                                                 ICA5
                                                                                          8
               1-102-937-00 CAP, CERAMIC 4P
                                                             50 V
  C3
                                                                                 ICA6
                                                                                          8
                                CAP, ELECT 100 20%
                                                             25V
               1-123-333-00
                                                                                  to 8
               1-161-900-11 CAP, CERAMIC 1
  C5
                                                                                               8-759-007-10 IC MC74HC541N
8-759-007-10 IC MC74HC541N
8-759-203-50 IC TC74HC574P
                                                                                 ICB1
                                                             50 V
               1-104-065-00
                                CAP, STYROL 330P 5%
                                                                                 ICB2
  C6
               1-104-077-00 CAP, STYROL 0.001 5% 50V
1-162-179-11 CAP, CERAMIC 0.1 50V
1-102-820-00 CAP, CERAMIC 330P 5% 50V
                                                            50 V
50 V
                                                                                 ICB3
  C7
                                                                                              8-759-203-50 IC TC74HC574P
8-759-910-74 IC SN74874N
                                                                                 ICB4
  C9
                                                                                 ICB5
  to 11
```

Ref.				Ref.			
NO.	SP	Parts No.	Description	No.	SP	Parts No.	Description
ICB6	8	8-759-202-11	IC TC74HC00P	ICL1	8	8-759-220-00	IC TC40H000P
ICB7	8	8-759-945-78	IC SN74ALS10AN	ICL4	8		IC TC40H000P
ICB8	8	8-759-203-01	IC TC74HC175P	ICL5	8	8-759-202-74	IC TC74HC04P
ICB10	8	8-759-202-86	IC TC74HC123P	ICL7	8	8-759-202-32	IC TC74HC163P
				ICL8	8	8-759-202-74	IC TC74HC04P
ICC1	8	8-759-007-10	IC MC74HC541N				
ICC2	8	8-759-203-50	IC TC74HC574P	ICL9	8	8-759-202-11	IC TC74HC00P
ICC3	8	8-759-203-50	IC TC74HC574P	ICL10	8	8-759-202-11	IC TC74HC00P
ICC4	8	8-759-203-50	IC TC74HC574P				
ICC5	8	8-759-001-16	IC MC10116L	Ll	8	1-426-258-11	COIL, RF
				L2	8	1-409-339-00	COIL, SN
ICC6	8	8-759-926-32	IC AM26LS32PC				
ICC7	8	8-759-936-54	IC SN74ALS175N	Q1	8	8-729-281-53	TRANSISTOR 2SC1815GR
ICC8	8	8-759-911-75	IC 8N748175N	Q2	8	8-729-281-53	TRANSISTOR 28C1815GR
ICC10	8	8-759-202-12	IC TC74HC02P	Q3	8	8-729-201-53	TRANSISTOR 28A1015-GR
				Q4	8	8-729-281-53	TRANSISTOR 28C1815GR
ICD3	8	8-759-202-86	IC TC74HC123P	Q5	8	8-729-207-36	TRANSISTOR 28J105
ICD4	8	8-759-202-11	IC TC74HC00P	to 9			
ICD5	8	8-759-203-39	IC TC74HC390P	010	_	8-729-281-53	TRANSISTOR 2SC1815GR
ICD6	8	8-759-301-05	IC HD10105	Q10	8	8-729-124-08	TRANSISTOR 2SC2408
ICD8	8	8-759-776-41	IC TBP28L42N-MCK-D8	Q11 Q12	8	8-729-124-08	TRANSISTOR 2SC2408
		0 750 000 76	IC TC74HC30P		8	8-729-205-88	TRANSISTOR 2SC3074-Y
ICD9	8	8-759-202-76		Q13 Q14	8 8	8-729-206-12	TRANSISTOR 2SA1244-Y
ICD10	8	8-759-203-40	IC TC74HC393P	Q15	8	8-729-281-53	TRANSISTOR 2SC1815GR
* 072.2		0 750 202-40	IC TC74HC393P	Q13	•	0-729-201 33	IMMOIDION IDOIDISCH
ICE3	8	8-759-203-40	IC TC40H138P	R11	8	1-247-849-00	RES, CARBON 5.6K 5% 1/4W
ICE4	8 .	8-759-200-22	IC TC74HC153P	R16	8	1-215-462-00	RES, METAL 51K 1% 1/6W
ICE5	8	8-759-202-93 8-759-001-35	IC MC10135L	R17	8	1-215-455-00	RES, METAL 27K 1% 1/6W
ICE6	8	8-759-301-31	IC HD10131	R18	8	1-215-452-00	RES, METAL 20K 17 1/6W
ICE7	8	0-/39-301-31	IC RDIOISI	R19	8	1-215-445-00	RES, METAL 10K 12 1/6W
ICE8	8	8-759-202-32	IC TC74HC163P		-		
ICE9	8	8-759-904-18	IC SN74ALSOOAN	R22	8	1-247-849-00	RES, CARBON 5.6K 5% 1/4W
ICE10	8	8-759-917-01	IC SN74HC379N	R23	8	1-247-849-00	RES, CARBON 5.6K 5% 1/4W
10210	٠,	0 / / / / / / 02	20 0017 40057 507	R29	8	1-215-463-00	RES, METAL 56K 1% 1/6W
ICF3	8	8-759-202-86	IC TC74HC123P	to 31			•
ICF4	8		IC MC74HC74N				
ICF6	8	8-759-301-05	IC HD10105	R32	8	1-214-971-00	RES, METAL 2M 1% 1/4W
ICF7	6	8-759-300-26	IC HD10136	to 34			
ICF8	8	8-759-202-32	IC TC74HC163P				
	-			R39	8	1-247-895-00	RES, CARBON 470K 5% 1/4W
ICF9	8	8-759-202-11	IC TC74HC00P	R44	8	1-215-463-00	RES, METAL 56K 1% 1/6W
ICF10	8	8-759-202-32	IC TC74HC163P	to 46			
ICG3	8	8-759-202-86	IC TC74HC123P	R47	8	1-214-509-00	RES, METAL 10 17 1/8W
ICG4	8	8-759-202-11	IC TC74HC00P	R48	8	1-214-971-00	RES, METAL 2M 17 1/4W
ICG6	8	8-759-202-74	IC TC74HC04P	R49	8	1-214-509-00	RES, METAL 10 17 1/8W
ICG7	8	8-759-926-32	IC AM26LS32PC	R50	8	1-214-509-00	RES, METAL 10 17 1/8W
ICG8	8	8-759-202-32	IC TC74HC163P	R51	8	1-214-971-00	RES, METAL 2M 17 1/4W
				R52	_	1-214-509-00	RES, METAL 10 1% 1/8W
10G9	8	8-759-202-32	IC TC74HC163P	R53	8 8	1-214-509-00	RES, METAL 10 12 1/8W
ICG10	8	8-759-202-15	IC TC74HC10P	R54	8	1-214-971-00	RES, METAL 2M 12 1/4W
				R55	8	1-214-509-00	RES, METAL 10 17 1/8W
ICH3	8		IC TC74HC163P	R63	8	1-215-463-00	RES, METAL 56K 17 1/6W
ICH4	8		IC TC74HC163P		-	00	JUN 1/ UN
ICH5	8	8-759-202-15		R111	8	1-215-452-00	RES, METAL 20K 17 1/6W
ICH6	8		IC TC74HC574P	to 11			
ICH7	8	8-759-203-39	IC TC74HC390P				
			TO HD1010/	R115	8	1-249-447-11	RES, CARBON 1 5% 1/4W
ICH8	8	8-759-300-26	IC HD10136	R116	8	1-249-447-11	
ICH9	6	8-759-300-26	IC HD10136 IC HD10136				•
ICH10	8	8-759-300-26	· ·	RB1	8	1-235-005-00	RESISTOR BLOCK 47K
ICJ3	_	8-759-202-11		to 6			
ICJ6	8	8-759-202-11	IC TC74HC00P				
ICJ7	8	8-759-203-40	IC TC74HC393P			-230-844-11	RES, ADJ, METAL 20K
ICJ9	8	8-759-016-48	IC 1074RC393F IC MC1648P	RV2	8	1-228-530-00	RES, ADJ, CERMET 100K
ICIIO	8	8-759-301-05	IC HD10105	to 4			
-~10		0 757 301 03					
ICK2		8-759-202-74	IC TC74HC04P	Sl	8	1-553-441-00	
ICK3	8	8-759-202-15		82	8	1-553-441-00	SWITCH, TOGGLE
ICK4	8		IC TC74HC390P	84	8	1-553-440-00	SWITCH, TOGGLE
ICK5	8	8-759-000-99		85	8	1-553-441-00	SWITCH, TOGGLE
ICK6	8	8-759-918-71	IC GX23065	S6	8	1-553-440-00	SWITCH, TOGGLE
	-					1 550 / 12 4-	
ICK7	8	8-759-203-39	IC TC74HC390P	S7	8	1-553-441-00	SWITCH, TOGGLE
ICK8	8	8-759-000-99		S8	0	1-570-598-11	SWITCH, DIP
ICK9	8	8-759-918-71	IC CX23065	OU.1		1_552_44100	CHITCH TOCCET
ICK10	8	8-759-926-32	IC AM26LS32PC	SW1	8	1-553-441-00	SWITCH, TOGGLE
				to 6			

Ref.				Ref.			
No.	SP	Parts No.	Description	No.	SP	Parts No.	Description
<b>32 1</b>		1 547 051 11	TITEDATOR COVETAI	TOPI		9_750_017_01	TC QN7/JUC27ON
X1	В	1-567-851-11 1-567-852-11	VIBRATOR, CRYSTAL VIBRATOR, CRYSTAL	ICE1 ICE2	8 8	8-759-917-01 8-759-917-01	IC SN74HC379N IC SN74HC379N
X2 X3	8 8	1-567-853-11	VIBRATOR, CRYSTAL	ICE3	8	8-759-001-42	IC MC74HC174N
X4	B	1-567-854-11	VIBRATOR, CRYSTAL	ICE4	8	8-759-202-32	IC TC74HC163P
<b>X</b> 5	8	1-567-855-11	VIBRATOR, CRYSTAL	ICE5	8	8-759-202-34	IC TC74HC257P
X6	8	1-567-856-11	VIBRATOR, CRYSTAL	2025	-	0 /3/ =0= 0 1	10 10//11023/1
A.U	•	1 507 050 11	, and an	I CE6	8	8-759-202-32	IC TC74HC163P
				ICE7	8	8-759-203-24	IC TC74HC283P
				ICE8	8	8-759-202-32	IC TC74HC163P
				ICE10	8	8-759-202-74	IC TC74HC04P
				ICEll	8	8-759-202-32	IC TC74HC163P
				ICF1	8	8-759-917-01	IC SN74HC379N
				ICF3	8	8-759-203-33	IC TC74HC367P
				ICF4	8	8-759-202-16 8-759-202-93	IC TC74HC11P IC TC74HC153P
MDC_1	BOAT	n		ICF5	8 8	8-759-202-93	IC TC74HC153P
MDC-1	O		MOUNTED PCB, MDC-1	1010	•	0 / 33 202 /3	10 10/4401331
(This	8886	embly includes	the following parts.)	ICF7	8	8-759-202-12	IC TC74HC02P
(1			•	ICF8	8	8-759-202-74	IC TC74HC04P
_	8	2-251-622-11	LEVER, PC BOARD	ICF9	8	8-759-001-42	IC MC74HC174N
				ICF10	8	8-759-202-14	IC TC74HC08P
C17	8	1-123-333-00	CAP, ELECT 100 20% 25V	ICF11	8	8-759-000-99	IC MC74HC74N
Dl	8	8-719-812-44	DIODE TLY124	ICH1	8	8-759-202-24	IC TC74HC86P
D2	8	8-719-812-44	DIODE TLO124	ICH2	8	8-759-202-14	IC TC74HC08P
D3	8	8-719-812-41	DIODE TLR124	ICH3	8	8-759-202-27	IC TC74HC157P
<b>D</b> 4	8	8-719-812-44	DIODE TLY124	ICH4	8	8-759-914-39	IC MBM2114A-10LP
<b>D</b> 5	8	8-719-812-43	DIODE TLG124A	ICH5	8	8-759-203-21	IC TC74HC273P
<b>D</b> (	_	8-719-812-44	DIODE TLY124	ICH6	8	8-759-007-41	IC MCM6147P55
106 107	8 8	8-719-812-41	DIODE TLR124	ICH7	8	8-759-202-32	IC TC74HC163P
D/	В	0-119-011-41	BIODE IDALE	ICH8	8	8-759-202-32	IC TC74HC163P
ICA1	8	8-759-917-01	IC SN74HC379N	1CH9	8	8-759-202-11	IC TC74HC00P
ICA2	8	8-759-917-01	IC SN74HC379N	ICH10	8	8-759-202-11	IC TC74HC00P
ICA3	8	8-759-926-31	IC AM26LS31PC	ICH11	8	8-759-202-14	IC TC74HC08P
ICA4	8	8-759-926-31	IC AM26LS31PC				
ICA5	8	8-759-001-42	IC MC74HC174N	ICJI	В	8-759-001-42	IC MC74HC174N
				ICJ2	8	8-759-202-74	IC TC74HC04P
ICA6	8	8-759-203-21	IC TC74HC273P	ICJ3	8	8-759-202-27	IC TC74HC157P
ICA7	8	8-759-203-21	IC TC74HC273P	ICJ4	8	8-759-202-76	IC TC74HC3OP
ICA8	8	8-759-776-42	IC TBP28L42N-MDC-A8	ICJ5	8	8-759-203-24	IC TC74HC283P
ICA9	8	8-759-773-78	IC TBP28L42N-MDC9A				
ICA11	8	8-759-778-13	IC 27C256A-MDC-All	ICJ6	8	8-759-202-24	IC TC74HC86P
				ICJ7	8	8-759-917-01	IC SN74HC379N
ICB1	8	8-759-917-01	IC SN74HC379N	ICJ8	8	8-759-202-11	IC TC74HC00P
ICB2	8	8-759-917-01	IC SN74HC379N	ICJ9	8	8-759-202-32	IC TC74HC163P
ICB3	8	8-759-917-01	IC SN74HC379N	ICJ10	8	8-759-202-32	IC TC74HC163P
ICB4	8	8-759-202-74	IC TC74HC04P IC TC74HC151P	ICJ11	8	8-759-202-32	IC TC74HC163P
1 CB 5	8	8-759-202-92	IC TO/ARCISIF	ICK1	8	8-759-004-63	IC MC74HC125N
ICB6	8	8-759-001-42	IC MC74HC174N	1CK2	8	8-759-202-11	IC TC74HC0OP
ICB7	8	8-759-001-42	IC MC74HC174N	ICK3	8	8-759-202-32	IC TC74HC163P
ICB8	6	8-759-203-21	IC TC74HC273P	ICK4	8	8-759-202-11	IC TC74HC00P
1 CB 9	8	8-759-202-32	IC TC74HC163P	ICK5	8	8-759-202-34	IC TC74HC257P
ICB11		8-759-778-14	IC 27C256A-MDC-B11	T ( /		0 750 000 **	*** ###****
				ICK6	8	8-759-202-14	IC TC74HC08P
ICC1	8	8-759-776-43	IC TBP28L42N-MDC-C1	ICK7	8	8-759-202-74	IC TC74HC04P IC TC74HC109P
ICC2	8	8-759-202-11	IC TC74HC00P	ICK8 ICK9	8 8	8-759-202-84 8-759-202-84	IC TC/4HC109P
ICC3	8	8-759-203-36	IC TC74HC374P	ICK10	8	8-759-202-32	IC TC74HC163P
I CC4	8	8-759-933-89	IC MB8167A-55P	ICK11	8	8-759-202-32	IC TC74HC163P
1005	8	8-759-007-41	IC MCM6147P55		•	- / - /	
ICC6	8	8-759-001-42	IC MC74HC174N	ICL1	8	8-759-914-39	IC MBM2114A-10LP
1007	8	8-759-203-24	IC TC74HC283P	ICL2	8	8-759-203-01	IC TC74HC175P
ICC8	8	8-759-202-32	IC TC74HC163P	ICL3	8	8-759-007-41	IC MCM6147P55
ICC9	8	8-759-202-32	IC TC74HC163P	ICL4	8	8-759-914-39	IC MBM2114A-10LP
_00)	-	•		1CL5	8	8-759-914-39	IC MBM2114A-10LP
ICD2	8	8-759-202-21	IC TC74HC32P	7 ~~ -		0 750 011 00	TO MOVE 11/4 10
I CD3	8	8-759-001-42	IC MC74HC174N	ICL6	8	8-759-914-39	IC MBM2114A-10LP
ICD4	8	8-759-202-32	IC TC74HC163P	ICL7	8	8-759-202-32	IC TC74HC163P
ICD5	8	8-759-202-32	IC TC74HC163P	ICL8 ICL9	8	8-759-202-84 8-759-202-20	IC TC74HC109P IC TC74HC27P
ICD6	8	8-759-202-32	IC TC74HC163P	ICL10	8 8	8-759-773-77	IC TBP28L42N-MDC10L
			70 M07/W0002B	ICLIU	8	8-759-773-76	IC TBP28L42N-MDC11L
I CD7	8	8-759-203-24	IC TC74HC283P	10011		5 155-115-10	TO IDITORATE LINCIIT
I CD8	8	8-759-202-32	IC TC74HC163P	ICM1	8	8-759-202-32	IC TC74HC163P
I CD9	8	8-759-202-32	IC TC74HC163P	I CM2	8	8-759-202-32	IC TC74HC163P
I CD1	8	8-759-778-15	IC 27C256A-MDC-D11	I CM3	8	8-759-202-32	IC TC74HC163P
				ICM4	8	8-759-202-32	IC TC74HC163P
				ICM5	8	8-759-001-42	IC MC74HC174N
NOTE	: P1	ease see pages	D-21 for the part numbers				

Ref. No.	SP	Parts No.	Description		Ref. No.	8P	Parts No.	Description
ICM6	8	8-759-776-79	IC MB7114L-MDC-M6	1	CD6	8	8-759-202-15	IC TC74HC10P
ICM7	8	8-759-202-89	IC TC74HC139P		CD7	8	8-759-202-18	IC TC74HC20P
ICM8	8	8-759-001-39	IC MC74HC164N		CD8	8	8-759-202-82	IC TC74HC85P
ICM9	8	8-759-001-39	IC MC74HC164N	I	CD9	8	8-759-906-69	IC SN74LS669N
ICM10	8	8-759-202-15	IC TC74HC10P	I	CD10	8	8-759-202-74	IC TC74HC04P
ICM11	8	8-759-202-32	IC TC74HC163P	I	CD11	8	8-759-000-99	IC MC74HC74N
ICN1	8	8-759-202-86	IC TC74HC123P		ICE1	8	8-759-004-63	IC MC74HC125N
ICN2	8	8-759-202-86	IC TC74HC123P		CE2	8	8-759-202-14	IC TC74HC08P
ICN3	8	8-759-202-86	IC TC74HC123P		to 5			
ICN4	8	8-759-202-32	IC TC74HC163P	_			0 750 000 10	TO BOT/WOODD
ICN5	8	8-759-202-32	IC TC74HC163P		ICE6	8	8-759-202-12	IC TC74HC02P
		0 750 000 74	TC TC7/UC0/D		ICE7	8	8-759-202-93	IC TC74HC153P
ICN6	8	8-759-202-74	IC TC74HC04P IC MC74HC164N		ICE8 ICE9	8	8-759-202-74 8-759-202-27	IC TC74HC04P IC TC74HC157P
ICN7	8	8-759-001-39 8-759-001-39	IC MC74HC164N		ICE10	8	8-759-202-27	IC TC74HC157P
ICN8 ICN9	8	8-759-000-99	IC MC74HC74N		ICE11	8	8-759-916-99	IC SN74HC378N
ICN10	8	8-759-776-80	IC MB7114L-MDC-N10	_		-		
ICN11	8	8-759-001-42	IC MC74HC174N	1	ICF1	8	8-759-203-36	IC TC74HC374P
101111	٠	0 /33 00= 15			ICF2	8	8-759-203-36	IC TC74HC374P
R1	8	1-247-883-00	RES, CARBON 150K 5% 1/4W	1	ICF3	8	8-759-202-55	IC TC74HC244P
to 6				1	ICF4	8	8-759-202-55	IC TC74HC244P
				1	ICF5	8	8-759-922-42	IC MR81464-12
RB1	8	1-235-005-00	RESISTOR BLOCK 47K		to 8			
RB2	8	1-235-005-00	RESISTOR BLOCK 47K	_			0 750 000 01	76 ma7/waa7an
RB3	8	1-231-399-00	RESISTOR BLOCK 330		ICF9	8	8-759-203-21	IC TC74HC273P
					ICF10	8	8-759-202-27	IC TC74HC157P IC SN74HC378N
					CF11	8	8-759-916-99	1C SN/4HC3/6N
				1	ICH2	8	8-759-202-93	IC TC74HC153P
					ICH3	8	8-759-001-42	IC MC74HC174N
					ICH4	8	8-759-916-99	IC SN74HC378N
					ICH5	8	8-759-004-72	IC MC74HC259N
					ICH6	8	8-759-202-14	IC TC74HC08P
				1	ICH7	8	8-759-202-14	IC TC74HC08P
MDM-2	ROAT	n.		1	ICH9	8	8-759-909-62	IC MB8264A-15P
_	0		MOUNTED PCB, MDM-2	1	ICH10	8	8-759-001-33	IC MC74HC158N
(This			the following parts.)	1	ICH11	8	8-759-001-33	IC MC74HC158N
		,	<b>.</b> .					
_	8	2-251-622-11	LEVER, PC BOARD	3	ICJ1	8	8-759-913-17	IC CX23021
					to 8			
C1	8	1-123-333-00	CAP, ELECT 100 20% 25V	,	ICJ9	8	8-759-776-54	IC MB7112L-MDM-J9
					ICJ11	8	8-759-001-39	IC MC74HC164N
DL1	₿	1-415-167-00	DELAY LINE	•	10011	•	0 737 001 37	10 1107411010411
			70 007/0077N	1	ICK1	8	8-759-916-98	IC SN74HC377N
ICA3	8	8-759-916-98	IC SN74HC377N	_	to 4	-		
ICA4	8	8-759-202-27	IC TC74HC157P IC TC74HC157P					
ICA5 ICA6	8	8-759-202-27 8-759-203-21	IC TC74RC137F	1	ICK5	8	8-759-203-36	IC TC74HC374P
ICA7	8 8	8-759-001-42	IC MC74HC174N	3	ICK6	8	8-759-203-36	IC TC74HC374P
LUA		0-733-001 42	20 1101411011411		ICK7	8	8-759-001-42	IC MC74HC174N
ICA8	8	8-759-001-42	IC MC74HC174N	1	ICK8	8	8-759-202-98	IC TC74HC166P
ICA9	8	8-759-202-21	IC TC74HC32P		to 11			
ICA10	8	8-759-203-30	IC TC74HC365P			_	0 750 000 07	TG T07411G1E7D
ICA11	8	8-759-917-01	IC SN74HC379N		ICL1	8	0-/39-202-2/	IC TC74HC157P
					to 4			
ICB3	8		IC SN74HC377N	1	ICL5	8	8-759-202-55	IC TC74HC244P
ICB4	8		IC TC74HC157P		ICL6	8	8-759-202-55	IC TC74HC244P
ICB5	8		IC TC74HC157P IC TC74HC273P	_	ICL7	8		IC MC74HC174N
ICB6	8	8-759-203-21 8-759-001-42	IC 1C/4HC2/3P IC MC74HC174N		ICL8	8	8-759-202-98	
ICB7	8	0-/ ) 3-001-42	** 101 41011 4M		to 11			
ICB8	8	8-759-001-42	IC MC74HC174N					
ICB9	8	8-759-202-11	IC TC74HC00P		ICM1	8	8-759-202-24	IC TC74HC86P
ICB10	8		IC MC74HC74N		to 4			
ICB11	8	8-759-202-74				_	0 750 005 15	TA 10001/// **
				1	ICM5	8	8-759-922-42	IC MR81464-12
ICC2	8	8-759-202-20			to 8			
ICC3	5	8-759-202-20		-	ICM9	8	8-759-202-27	IC TC74HC157P
ICC4	6		IC TC74HC30P		ICM9		8-759-202-27	IC TC74HC157P
ICC6	8		IC MB7112L-MDM-C6		ICM11		8-759-203-21	IC TC74HC273P
ICC7	8	8-759-001-33	IC MC74HC158N	•		-		
1000		0.750.001-23	IC MC74HC158N	B	RB 1	8	1-235-005-00	RESISTOR BLOCK 47K
ICC8 ICC9	8	8-759-001-33	IC MC74HC138N IC MC74HC74N		to 8			
ICC11	8	8-759-000-99 8-759-202-32	IC TC74HC163P		-			
10011	8	0-137-202-32	20 20/71102032					
ICD2		8-759-202-24	IC TC74HC86P					
to 5	ø	0 , 3 , 202 24	== <del>== := = =</del>					
NOTE :	P1	ease see pages	D-21 for the part numbers					
	ο£	capacitors and	resistors that are not					
	ļi	sted in the par	ts list.					
				D 50				

Ref.				Ref.		<b>-</b>	To a contract on
No. SP	Parts No.	Description		No.	SP	Parts No.	Description
PA-57 BOA				C1803	8	1-161-218-51	
- 0		COMPLETE PCB, PA-57		C1804	8	1-161-485-00	CAP, CERAMIC 0.1 50V
(This ass	embly includes	the following parts.)		C1805	8	1-161-485-00	CAP, CERAMIC 0.1 50V
		4-1		C1806	8	1-161-485-00	CAP, CERAMIC 0.1 50V
- s	2-832-007-00			C1901	8	1-101-888-00	CAP, CERAMIC 68P 5% 50V
g	3-703-207-11	INSULATOR, TO-220		a1 00 0	_	1 161 010 51	CAD CEDANTO O 0002 ET 5007
- s	7-628-254-10			C1902		1-161-218-51	
- 8	7-628-254-20	SCREW +PS 2.6x8		C1903	8	1-161-218-51	CAP, CERAMIC 0.0082 5% 50V
			FA	C1904		1-161-485-00	CAP, CERAMIC 0.1 50V
C7 8	1-161-900-11		50V	C1905		1-161-485-00	CAP, CERAMIC 0.1 50V
C8 s	1-161-900-11	•	50V	C1906	8	1-161-485-00	CAP, CERAMIC 0.1 50V
С9 в	1-161-485-00		50V	00001	_	1 101 000 00	OAD OPPANTO COD ET SOU
C10 s	1-161-485-00		50V	C2001	8	1-101-888-00	CAP, CERAMIC 68P 5% 50V
C11 8	1-123-357-00	CAP, ELECT 22 20%		C2002		1-161-218-51	CAP, CERAMIC 0.0082 5% 50V CAP, CERAMIC 0.0082 5% 50V
C12 B	1-123-357-00	CAP, ELECT 22 20%	JUV	C2003	8	1-161-218-51	CAP, CERAMIC 0.0062 3% 30V
C1021 s	1-102-978-00	CAP, CERAMIC 220P 5%	50V	C2004	8	1-161-485-00	CAP, CERAMIC 0.1 50V
C1021 8	1-161-218-51			C2005	8	1-161-485-00	CAP, CERAMIC 0.1 50V
C1023 8	1-161-218-51				8	1-161-485-00	CAP, CERAMIC 0.1 50V
C1024 B	1-161-485-00		50V	C2101	8	1-101-888-00	
C1025 a	1-161-485-00		50V	C2102	8	1-161-218-51	CAP, CERAMIC 0.0082 5% 50V
-		·					
С1026 в	1-161-485-00	CAP, CERAMIC 0.1	50 <b>v</b>	C2103	8	1-161-218-51	CAP, CERAMIC 0.0082 5% 50V
C1121 8	1-102-978-00	CAP, CERAMIC 220P 5%		C2104	8	1-161-485-00	CAP, CERAMIC 0.1 50V
C1122 8	1-161-218-51	CAP, CERAMIC 0.0082 5%	50V	C2105	8	1-161-485-00	CAP, CERAMIC 0.1 50V
C1123 B	1-161-218-51			C2106	8	1-161-485-00	CAP, CERAMIC 0.1 50V
C1124 s	1-161-485-00	CAP, CERAMIC 0.1	50V				
				D1021	8	8-719-902-79	DIODE KV1236Z
C1125 8	1-161-485-00		50V	D1022	8	8-719-902-79	DIODE KV1236Z
C1126 s	1-161-485-00		50V	D1121	8	8-719-902-79	DIODE KV1236Z
C1201 s	1-101-888-00			D1122		8-719-902-79	
C1202 8	1-161-218-51			D1201	8	8-719-902-79	DIODE KV1236Z
C1203 s	1-161-218-51	CAP, CERAMIC 0.0082 5%	50V				
			70"	D1202		8-719-902-79	
C1204 s	1-161-485-00		50V	D1301		8-719-902-79	
C1205 8	1-161-485-00		50V	D1302	8	8-719-902-79	
C1206 8	1-161-485-00		50V	D1401	8	8-719-902-79	
C1301 8	1-101-888-00		50V	D1402	8	8-719-902-79	DIODE KV1236Z
C1302 s	1-161-218-51	CAP, CERAMIC 0.0082 5%	JUV	D1501	8	8-719-902-79	DIODE KV1236Z
a1000 -	1 161 210_51	CAP, CERAMIC 0.0082 5%	50V	D1502	8	8-719-902-79	
C1303 s	1-161-218-51		50V	D1601	8	8-719-902-79	
C1304 8	1-161-485-00		507	D1602	8	8-719-902-79	DIODE KV1236Z
C1305 8			507	D1701		8-719-902-79	
C1306 B C1401 B			507		-	0 143 302 13	21022 X, 18302
C1401 B	1-101 000 00	<b></b> , <b></b>		D1702	8	8-719-902-79	DIODE KV1236Z
C1402 s	1-161-218-51	CAP, CERAMIC 0.0082 5%	50V	D1801	8	8-719-902-79	
C1403 B				D1802	8	8-719-902-79	
C1404 8			50V	D1901	8	8-719-902-79	DIODE KV1236Z
C1405 8	1 1/1 /05 00		50V	D1902	8	8-719-902-79	DIODE KV1236Z
С1406 в		CAP, CERAMIC 0.1	50V				
•= •= •				D2001	8	8-719-902-79	DIODE KV1236Z
C1501 8	1-101-888-00		50V	D2002	8	8-719-902-79	DIODE KV1236Z
C1502 B	1-161-218-51	CAP, CERAMIC 0.0082 5%	50V	D2101	8	8-719-902-79	DIODE KV1236Z
C1503 s	1-161-218-51		50V	D2102	8	8-719-902-79	DIODE KV1236Z
C1504 8	1-161-485-00		50V				
C1505 B	1-161-485-00	CAP, CERAMIC 0.1	50V	IC2	8	8-759-700-06	
	1 1/1 /05 00	CAP, CERAMIC 0.1	50V	IC3	8	8-759-179-12	IC ORC/AITH
C1506 8			50V	TC1021	_	1_807_900 11	TC TQUA
C1601 s				IC1021		1-807-890-11 1-807-890-11	
C1602 8	4 4 4 4 A 1 A F 1			IC1121		1-807-890-11	IC TSHA
C1603 8		·	50V	IC1201		1-807-890-11	
C1604 8	1-161-485-00	ORI; CERRITO VII		IC1301 IC1401		1-807-890-11	
01605	1-161-485-00	CAP, CERAMIC 0.1	50V	201701	-	2 007 070 11	
C1605 8		<b></b>	50V	IC1501	8	1-807-890-11	IC TSHA
C1606 8			50V	IC1601		1-807-890-11	
C1701 a				IC1701			IC TSHA
C1702 E	4 444 646 71		507	IC1801		1-807-890-11	IC TSHA
01103 8				IC1901		1-807-890-11	
C1704 8	1-161-485-00	CAP, CERAMIC 0.1	507		-		
C1704 E			50V	IC2001	8	1-807-890-11	IC TSHA
C1706 8	4 4/4 /07 00		50V	IC2101		1-807-890-11	
C1801 8		CAP, CERAMIC 68P 5%	50V				
C1802			50V	Q1	8	8-729-281-52	TRANSISTOR 2SC1815-Y
J				Q2	8	8-729-281-52	
				•			· ·
				RV 2	8		RES, ADJ, METAL 10K
				RV3	8	1-230-842-11	RES, ADJ, METAL 5K

Ref.

Rer. No.	SP	Parts No.	Description	Ref.	SI	Parts No.	Description		
R1021		1-214-577-00	RES, METAL 6.8K 1% 1/8W	T150	l s	1-437-163-12	TRANSFORMER,	DIGITAL	
R1021	8	1-215-830-11	RES, METAL 100K 1% 1/8W	T160		1-437-163-12	TRANSFORMER,		
	8		RES, METAL 100K 1% 1/6W	T170		1-437-163-12	TRANSFORMER,		
R1023	8	1-215-830-11							
R1024	8	1-249-462-11	RES, CARBON 22K 5% 1/4W	T180		1-437-163-12 1-437-163-12	TRANSFORMER,		
R1121	8	1-214-577-00	RES, METAL 6.8K 17 1/8W	T190		1-437-163-12	TRANSFORMER, TRANSFORMER,		
D1100	_	1 015-020-11	RES, METAL 100K 1% 1/8W	T200 T210		1-437-163-12	TRANSFORMER,		
R1122 R1123	8	1-215-830-11 1-215-830-11	RES, METAL 100K 1% 1/8W	1210	,1 8	1-457-105-12	IRANGE ORIGE,	DIGITAL	
R1124	8 8	1-249-462-11	RES, CARBON 22K 5% 1/4W						
R1201	8	1-214-577-00	RES, METAL 6.8K 1% 1/8W						
R1202	8	1-215-830-11	RES, METAL 100K 1% 1/8W						
	_								
R1203	8	1-215-830-11	RES, METAL 100K 1% 1/8W						
R1204	8	1-249-462-11	RES, CARBON 22K 5% 1/4W						
R1301	8	1-214-577-00	RES, METAL 6.8K 1% 1/8W						
R1302	8	1-215-830-11	RES, METAL 100K 12 1/8W						
R1303	8	1-215-830-11	RES, METAL 100K 1% 1/8W						
D1204	_	1 24046211	DEC CADDON 22V 57 1/AU	REC-	-1 BO				
R1304	8	1-249-462-11	RES, CARBON 22K 5% 1/4W RES, METAL 6.8K 1% 1/8W	-	۰		COMPLETE PCB		
R1401 R1402	8	1-214-577-00 1-215-830-11	RES, METAL 100K 1% 1/8W	(Th	LS as	sembly includes	the following	parts.)	
R1403	8	1-215-830-11	RES, METAL 100K 1% 1/8W		_	0.051.600.11		455	
R1404	8	1-249-462-11	RES, CARBON 22K 5% 1/4W	_	5	7-721-07X-11	LEVER, PC BO	AKD	
			•	C12	8	1-123-333-00	CAP, ELECT	100 20% 25	5 tz
R1501	8	1-214-577-00	RES, METAL 6.8K 1% 1/8W	C13	8	1-123-333-00	CAP, ELECT	100 20% 2	
R1502	8	1-215-830-11	RES, METAL 100K 1% 1/8W	C14	8	1-124-786-11	CAP, ELECT	22 20% 3	
R1 503	8	1-215-830-11	RES, METAL 100K 1% 1/8W	C15	8	1-124-786-11	CAP, ELECT	22 20% 3	
R1 504	8	1-249-462-11	RES, CARBON 22K 5% 1/4W	C16	8	1-162-179-11	CAP, CERAMIC		0 V
R1601	8	1-214-577-00	RES, METAL 6.8K 17 1/8W				•		
D1464			DEC MOTAL 1002 19 1/01	C17	8	1-124-126-00	CAP, ELECT	47 20% 25	5 V
R1602	8	1-215-830-11	RES, METAL 100K 1% 1/8W	C24	s	1-123-333-00	CAP, ELECT	100 20% 2	5 V
R1603	8	1-215-830-11	RES, METAL 100K 17 1/8W	C34	8	1-124-786-11	CAP, ELECT	22 20% 35	5 V
R1604 R1701	8	1-249-462-11 1-214-577-00	RES, CARBON 22K 5% 1/4W RES, METAL 6.8K 1% 1/8W	C41	8	1-162-179-11	CAP, CERAMIC		0 V
R1701	8 8	1-215-830-11	RES, METAL 100K 1% 1/8W	C100	)1 s	1-102-951-00	CAP, CERAMIC	15P 5% 50	ď
MI/ UZ	•	1-215-050 11	100, 10110 1000 10 1700	010	۰	1 160 170 11	CAR CERANTO	0.1 50	٠.
R1703	8	1-215-830-11	RES, METAL 100K 1% 1/8W	C100		1-162-179-11	CAP, CERAMIC		0 V
R1704	8	1-249-462-11	RES, CARBON 22K 5% 1/4W	C100		1-162-179-11 1-102-951-00	CAP, CERAMIC CAP, CERAMIC		0 V
R1801	8	1-214-577-00	RES, METAL 6.8K 1% 1/8W	C10		1-162-179-11	CAP, CERAMIC		Öν
R1802	8	1-215-830-11	RES, METAL 100K 1% 1/8W	C10		1-162-179-11	CAP, CERAMIC		ÖΫ
R1803	8	1-215-830-11	RES, METAL 100K 1% 1/8W			/		***	•
				C106	)7 в	1-101-888-00	CAP, CERAMIC	68P 5% 50	JV
R1804	8	1-249-462-11	RES, CARBON 22K 5% 1/4W	C110	)l a	1-102-951-00	CAP, CERAMIC		
R1901	8	1-214-577-00	RES, METAL 6.8K 17 1/8W	C110	)2 s	1-162-179-11	CAP, CERAMIC	0.1 50	)V
R1 902	8	1-215-830-11	RES, METAL 100K 1% 1/8W RES, METAL 100K 1% 1/8W	C110		1-162-179-11	CAP, CERAMIC		
R1 903 R1 904	8	1-215-830-11 1-249-462-11	RES, CARBON 22K 5% 1/4W	C110	)4 8	1-102-951-00	CAP, CERAMIC	15P 5% 50	<b>)</b> V
KI 304	8	1-243-402-11	RES, CARDON ZZR 3% 1/4#	611		1 160 170 11	01 D 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
R2001	8	1-214-577-00	RES, METAL 6.8K 1% 1/8W	C110		1-162-179-11	CAP, CERAMIC		
R2002	8	1-215-830-11	RES, METAL 100K 1% 1/8W	C110 C110	_	1-162-179-11 1-101-888-00	CAP, CERAMIC CAP, CERAMIC		
R2003	8	1-215-830-11	RES, METAL 100K 17 1/8W	C120		1-102-951-00	CAP, CERAMIC		
R2004	8	1-249-462-11	RES, CARBON 22K 5% 1/4W	C120		1-162-179-11	CAP, CERAMIC		
R2101	8	1-214-577-00	RES, METAL 6.8K 1% 1/8W				····· ,		
				C120	3 в	1-162-179-11	CAP, CERAMIC	0.1 50	<b>)</b> V
R2102	8	1-215-830-11	RES, METAL 100K 17 1/8W	C120	4 8	1-102-951-00	CAP, CERAMIC	15P 5% 50	V
R2103	8	1-215-830-11	RES, METAL 100K 1% 1/8W	C120		1-162-179-11	CAP, CERAMIC		
R2104	8	1-249-462-11	RES, CARBON 22K 5% 1/4W	C120		1-162-179-11	CAP, CERAMIC		
RV1021		1-230-844-11	RES, ADJ, METAL 20K	C120	7 s	1-101-888-00	CAP, CERAMIC	68P 5% 50	į٧
RV1021		1-230-844-11	RES, ADJ, METAL 20K	012/	11 -	1-102-051-00	ראם תבפאעדה	15P 5% 50	177
RV1201		1-230-844-11	RES, ADJ, METAL 20K	C130		1-102-951-00 1-162-179-11	CAP, CERAMIC CAP, CERAMIC		
RV1301		1-230-844-11	RES, ADJ, METAL 20K		3. 8	1-162-179-11	CAP, CERAMIC		
RV1401		1-230-844-11	RES, ADJ, METAL 20K	C13(		1-102-951-00	CAP, CERAMIC		
	-		•	C13(		1-162-179-11	CAP, CERAMIC		
RV1501	8	1-230-844-11	RES, ADJ, METAL 20K						
RV1601		1-230-844-11	RES, ADJ, METAL 20K	C130	6 8	1-162-179-11	CAP, CERAMIC	0.1 50	V
RV1701		1-230-844-11	RES, ADJ, METAL 20K	C130	7 s	1-101-888-00	CAP, CERAMIC	68P 5% 50	۷۷
RV1801	_	1-230-844-11	RES, ADJ, METAL 20K	C140		1-102-951-00	CAP, CERAMIC		
RV 1901		1-230-844-11	RES, ADJ, METAL 20K	C140		1-162-179-11	CAP, CERAMIC		
RV 2001		1-230-844-11	RES, ADJ, METAL 20K	C140	3 8	1-162-179-11	CAP, CERAMIC	0.1 50	V
RV2101	8	1-230-844-11	RES, ADJ, METAL 20K	01.46					
T1021	_	1-437-163-21	TRANSFORMER, DIGITAL	C140		1-102-951-00	CAP CERAMIC		
T1121	8	1-437-163-21	TRANSFORMER, DIGITAL	C140		1-162-179-11 1-162-179-11	CAP, CERAMIC CAP, CERAMIC		
T1201	8	1-437-163-12	TRANSFORMER, DIGITAL	C140 C140		1-101-888-00	CAP, CERAMIC		
T1301	8	1-437-163-12	TRANSFORMER, DIGITAL	C150		1-101-000-00	CAP, CERAMIC		
T1401	8	1-437-163-12	TRANSFORMER, DIGITAL	0130		1 102 771 00	Jii, Jiidailo		٠
	_		•	C150	2 s	1-162-179-11	CAP, CERAMIC	0.1 50	V
			ı	C150		1-162-179-11	CAP, CERAMIC		
				C150		1-102-951-00	CAP, CERAMIC		
Mo-	-	_	D 01 6 Ab	C150	5 <b>s</b>	1-162-179-11	CAP, CERAMIC	0.1 50	٧
NUTE :			D-21 for the part numbers	C150	6 в	1-162-179-11	CAP, CERAMIC	0.1 50	V
		capacitors and ted in the par	resistors that are not						
	T 18	een ru ens har							

Ref.

Ref. NO.	SP	Parts No.	Description	Ref. NO.	SP	Parts No.	Description
C1 507	8	1-101-888-00	CAP, CERAMIC 68P 5% 50V	D1301	8	8-719-921-20	DIODE 188119TD
C1601	8	1-102-951-00	CAP, CERAMIC 15P 5% 50V	D1302	8	8-719-921-20	DIODE 1SS119TD
C1602	8	1-162-179-11	CAP, CERAMIC 0.1 50V	D1303	8	8-719-921-20	DIODE 1SS119TD
C1603	8	1-162-179-11	CAP, CERAMIC 0.1 50V	D1304	8	8-719-921-20	DIODE 1SS119TD
C1604	8	1-102-951-00	CAP, CERAMIC 15P 5% 50V	D1401	8	8-719-921-20	DIODE 1SS119TD
G1 60E	_	1162-179-11	CAP, CERAMIC 0.1 50V	D1402	8	8-719-921-20	DIODE 188119TD
C1605	8	1-162-179-11 1-162-179-11	CAP, CERAMIC 0.1 50V	D1403	8	8-719-921-20	DIODE 1SS119TD
C1606 C1607	8	1-101-888-00	CAP, CERAMIC 68P 5% 50V	D1404	8	8-719-921-20	DIODE 1SS119TD
C1701	8	1-102-951-00	CAP, CERAMIC 15P 5% 50V	D1501	8	8-719-921-20	DIODE 1SS119TD
C1702	8	1-162-179-11	CAP, CERAMIC 0.1 50V	D1502	8	8-719-921-20	DIODE 1SS119TD
			CAP. CERAMIC 0.1 50V	D1503	8	8-719-921-20	DIODE 1SS119TD
C1703	8	1-162-179-11 1-102-951-00	CAP, CERAMIC 0.1 50V CAP, CERAMIC 15P 5% 50V	D1504	8	8-719-921-20	DIODE 1SS119TD
C1704 C1705	8 8	1-162-179-11	CAP, CERAMIC 0.1 50V	D1601	8	8-719-921-20	DIODE 188119TD
C1706	8	1-162-179-11	CAP, CERAMIC 0.1 50V	D1602	8	8-719-921-20	DIODE 1SS119TD
C1707	8	1-101-888-00	CAP, CERAMIC 68P 5% 50V	D1603	8	8-719-921-20	DIODE 188119TD
				D1604	8	8-719-921-20	DIODE 188119TD
C1801	8	1-102-951-00	CAP, CERAMIC 15P 5% 50V CAP, CERAMIC 0.1 50V	D1701	8	8-719-921-20	DIODE ISSII9TD
C1802	8	1-162-179-11	CAP, CERAMIC 0.1 50V CAP, CERAMIC 0.1 50V	D1702	8	8-719-921-20	
C1803	8	1-162-179-11 1-102-951-00		D1703	8	8-719-921-20	DIODE 1SS119TD
C1804 C1805	8	1-162-179-11	CAP, CERAMIC 0.1 50V	D1704	8	8-719-921-20	DIODE 1SS119TD
01003		1 102 117	·				Propr 100110mp
C1806	8	1-162-179-11	CAP, CERAMIC 0.1 50V	D1801	8	8-719-921-20	DIODE 188119TD DIODE 188119TD
C1807	8	1-101-888-00	CAP, CERAMIC 68P 5% 50V	D1802 D1803	8 8	8-719-921-20 8-719-921-20	DIODE 188119TD
C1901	8	1-102-951-00	CAP, CERAMIC 15P 5% 50V	D1804	8	8-719-921-20	DIODE 188119TD
C1902	8	1-162-179-11	CAP, CERAMIC 0.1 50V CAP, CERAMIC 0.1 50V	D1901	8	8-719-921-20	DIODE 1SS119TD
C1903	8	1-162-179-11	CAP, CERAMIC 0.1 50V		_		
C1904	8	1-102-951-00	CAP, CERAMIC 15P 5% 50V	D1902	6	8-719-921-20	DIODE 1SS119TD
C1905	8	1-162-179-11	CAP, CERAMIC 0.1 50V	D1903	8	8-719-921-20	DIODE 1SS119TD
C1906	8	1-162-179-11	CAP, CERAMIC 0.1 50V	D1904	8	8-719-921-20 8-719-921-20	DIODE 188119TD DIODE 188119TD
C1907	8	1-101-888-00	CAP, CERAMIC 68P 5% 50V	D2001 D2002	8 8	8-719-921-20	DIODE ISSILATE
C2001	8	1-102-951-00	CAP, CERAMIC 15P 5% 50V	D2002	•	0 713 321 20	21022 10011,12
C2002	8	1-162-179-11	CAP, CERAMIC 0.1 50V	D2003	8	8-719-921-20	DIODE 1SS119TD
C2003	8	1-162-179-11	CAP, CERAMIC 0.1 50V	D2004		8-719-921-20	DIODE 1SS119TD
C2004		1-102-951-00	CAP, CERAMIC 15P 5% 50V	D2101	8	8-719-921-20	
C2005		1-162-179-11	CAP, CERAMIC 0.1 50V	D2102		8-719-921-20	DIODE 188119TD DIODE 188119TD
C2006	8	1-162-179-11	CAP, CERAMIC 0.1 50V	D2103 D2104	8 8	8-719-921-20 8-719-921-20	DIODE ISSILATE
C2007		1-101-888-00	CAP, CERAMIC 68P 5% 50V				
C2007 C2101	8 8	1-102-951-00	CAP, CERAMIC 15P 5% 50V	IC4	8	8-759-700-53	IC NJM7808A
C2102		1-162-179-11	CAP, CERAMIC 0.1 50V	IC5	8	8-759-700-30	IC NJM7908A
C2103		1-162-179-11	CAP, CERAMIC 0.1 50V	IC13	8	8-759-354-52 8-759-354-52	IC HD75452P IC HD75452P
C2104		1-102-951-00	CAP, CERAMIC 15P 5% 50V	IC19 IC20	8 8	8-759-354-52	IC HD75452P
G010E	_	1-162-179-11	CAP, CERAMIC 0.1 50V		_		
C2105 C2106		1-162-179-11	CAP, CERAMIC 0.1 50V	ICA3	8	8-759-202-27	IC TC74HC157P
C2107		1-101-888-00		ICA4	8	8-759-202-27	
OLIV.	-		· · ·	ICA5	8	8-759-202-32	
<b>D</b> 5	8	8-719-921-20	DIODE 188119TD	ICA6 ICA7	8 8	8-759-202-27 8-759-974-07	IC SN7407N
D6	8	8-719-921-20	DIODE 1SS119TD	ICA8	8	8-759-974-07	IC SN7407N
<b>D</b> 7	8	8-719-812-41	DIODE TLR124	20110	-		
D8	8	8-719-921-20	DIODE 188119TD DIODE 188119TD	ICB1	8	8-729-131-11	IC UPC311C
D9	8	8-719-921-20	DIONE IGGIIAID	ICB3	8	8-759-202-92	IC TC74HC151P
<b>D</b> 10	8	8-719-812-41	DIODE TLR124	ICB4	8	8-759-203-40	IC TC74HC393P
D10	8	8-719-924-06	DIODE ERC24-06S	ICB 5	8	8-759-900-37	IC SN74LS37N
D12	8	8-719-924-06	DIODE ERC24-06S	ICB6	8	8-759-203-40	IC TC74HC393P IC TC74HC04P
D13	8	8-719-924-06	DIODE ERC24-06S	ICB7	8	8-759-202-74	IC IC/4HCU4F
D1001		8-719-921-20		ICC3	8	8-729-131-11	IC UPC311C
D1002		8-719-921-20	DIODE 1SS119TD	ICC4	8	8-759-203-52	IC TC74HC595P
		0 710 001 00	DIODE 188119TD	ICC5	8	8-759-776-44	IC TBP28L42N-REC-C5
D1003		8-719-921-20		ICC6	8	8-759-906-42	IC SN74LS642N
D1004 D1101		8-719-921-20 8-719-921-20		ICC8	8	8-759-974-07	IC SN7407N
D1101		8-719-921-20	DIODE 188119TD	=		0 750 010 00	TO UA2_2525_5
D1102		8-719-921-20	DIODE 188119TD	ICD4 ICD6	8	8-759-918-92 8-759-240-51	IC HA3-2525-5 IC TC4051BP
				ICD8	8	8-759-981-00	IC TLOSICP
D1104		8-719-921-20	DIODE 188119TD	2000	-		
D1201		8-719-921-20 8-719-921-20	DIODE 188119TD DIODE 188119TD	ICE4	8	8-759-918-92	IC HA3-2525-5
D1202		8-719-921-20	DIODE 188119TD	ICE6	8	8-759-240-51	IC TC4051BP
D1203 D1204		8-719-921-20	DIODE 188119TD	ICE8	8	8-759-981-00	IC TLO81CP
~1.55	_	-		ICF4	8	8-759-918-92	IC HA3-2525-5
				ICF4	8	8-759-240-51	IC TC4051BP
				ICF8	8	8-759-981-00	IC TLO81CP

```
Ref.
                                                                                  Ref.
         SP Parts No.
                                Description
                                                                                           SP Parts No.
                                                                                                                  Description
ICH4
              8-759-918-92 IC HA3-2525-5
                                                                                  R23
                                                                                                1-249-423-11 RES, CARBON 3.3K 5% 1/4W
                                IC TC4051BP
              8-759-240-51
ICH6
                                                                                  R24
                                                                                                1-249-429-11
                                                                                                                 RES, CARBON 10K 5% 1/4W RES, CARBON 560 5% 1/4W RES, CARBON 1K 5% 1/4W
              8-759-981-00 IC TL081CP
ICH8
                                                                                                1-249-414-11
                                                                                  R26
                                                                                                1-249-417-11
             8-759-918-92 IC HA3-2525-5
8-759-240-51 IC TC4051BP
8-759-981-00 IC TL081CP
TC14
                                                                                  R27
                                                                                                1-249-421-11 RES, CARBON 2.2K 5% 1/4W
ICJ6
                                                                                                1-249-437-11 RES, CARBON 47K 5% 1/4W 1-249-437-11 RES, CARBON 47K 5% 1/4W
ICJ8
              8-759-918-92 IC HA3-2525-5
8-759-240-51 IC TC4051BP
8-759-981-00 IC TL081CP
TCKA
                                                                                  R30
                                                                                                1-249-437-11 RES, CARBON 47K 5% 1/4W
ICK6
                                                                                  R31
                                                                                           8
                                                                                                1-249-437-11 RES, CARBON 47K
ICK8
                                                                                   R32
                                                                                                1-249-413-11 RES, CARBON 470 5% 1/4W
                                                                                           8
                                                                                   R33
                                                                                                1-249-413-11 RES, CARBON 470 5% 1/4W
ICL4
              8-759-918-92 IC HA3-2525-5
              8-759-240-51
                                IC TC4051BP
                                                                                   R1003 to R2103 (x12)
ICL6
              8-759-981-00 IC TL081CP
TCL8
                                                                                   (R1003, 1103, 1203, 1303, 1403, 1503
                                                                                     1603, 1703, 1803, 1903, 2003, 2103)
s 1-247-860-11 RES, CARBON 16K 5% 1/6W
ICM4
              8-759-918-92 IC HA3-2525-5
ICM6
              8-759-240-51 IC TC4051BP
TCM8
              8-759-981-00 IC TL081CP
                                                                                  R1008 to R2108 (x12)
                                                                                  (R1008, 1108, 1208, 1308, 1408, 1508
1608, 1708, 1808, 1908, 2008, 2108)
s 1-247-836-11 RES, CARBON 1.6K 5% 1/6W
ICN4
              8-759-918-92 IC HA3-2525-5
              8-759-240-51
                                IC TC4051BP
TCN8
              8-759-981-00 IC TLOSICP
                                                                                  R1301 to R2101 (x9)
                                                                                  (R1301, 1401, 1501, 1601, 1701, 1801, 1901, 2001, 2101)

8 1-249-417-11 RES, CARBON 1K 5% 1/4W
ICP4
              8-759-918-92 IC HA3-2525-5
              8-759-240-51
                                IC TC4051BP
ICP6
              8-759-981-00 TC TLOSICE
TCP8
                                                                                  R1302 to R2102 (x9)
                                                                                  (R1302, 1402, 1502, 1602, 1702, 1802, 1902, 2002, 2102)

s 1-249-429-11 RES, CARBON 10K 5% 1/4W
ICR4
              8-759-918-92 IC HA3-2525-5
              8-759-240-51
                                IC TC4051BP
ICR6
              8-759-981-00 IC TL081CP
ICR8
                                                                                  R1303 to R2103 (x9)
                                                                                  (R1303, 1403, 1503, 1603, 1703, 1803, 1903, 2003, 2103)
s 1-247-860-11 RES, CARBON 16K 5% 1/4W
ICS4
              8-759-918-92 IC HA3-2525-5
              8-759-240-51
                                IC TC4051BP
ICS6
         8
              8-759-981-00 IC TL081CP
ICS8
                                                                                  R1304 to R2104 (x9)
                                                                                  (R1304, 1404, 1504, 1604, 1704, 1804, 1904, 2004, 2104)

s 1-249-425-11 RES, CARBON 4.7K 5% 1/4W
03
              8-729-122-02 TRANSISTOR 2SA1220A-P
01001
              8-729-306-92
                                TRANSISTOR 2SD669A
Q1002
              8-729-364-92
                                TRANSISTOR 2SB649-C
              8-729-306-92
                                TRANSISTOR 2SD669A
01101
                                                                                  R1305 to R2105 (x9)
                                                                                  (R1305, 1405, 1505, 1605, 1705, 1805, 1905, 2005, 2105)

s 1-247-854-11 RES, CARBON 9.1K 5% 1/4W
              8-729-364-92 TRANSISTOR 2SB649-C
01102
01201
              8-729-306-92 TRANSISTOR 2SD669A
Q1202
              8-729-364-92
                                TRANSISTOR 2SB649-C
                                                                                  R1306 to R2106 (x9)
                                                                                  (R1306, 1406, 1506, 1606, 1706, 1806, 1906, 2006, 2106)
s 1-249-418-11 RES, CARBON 1.2K 5% 1/4W
              8-729-306-92
                                TRANSISTOR 2SD669A
01302
              8-729-364-92
                                TRANSISTOR 2SB649-C
01401
              8-729-306-92 TRANSISTOR 2SD669A
                                                                                  R1307 to R2107 (x9)
                                                                                  (R1307, 1407, 1507, 1607, 1707, 1807, 1907, 2007, 2107)
s 1-249-419-11 RES, CARBON 1.5K 5% 1/4W
01402
              8-729-364-92 TRANSISTOR 2SB649-C
              8-729-306-92
                                TRANSISTOR 2SD669A
01501
01502
              8-729-364-92
                                TRANSISTOR 2SB649-C
01601
              8-729-306-92
                                TRANSISTOR 2SD669A
                                                                                  R1308 to R2108 (x9)
                                                                                  (R1308, 1408, 1508, 1608, 1708, 1808, 1908, 2008, 2108)

s 1-247-836-11 RES, CARBON 1.6K 5% 1/4W
              8-729-364-92 TRANSISTOR 2SB649-C
01602
Q1701
                                TRANSISTOR 2SD669A
              8-729-306-92
01702
              8-729-364-92
                                TRANSISTOR 2SB649-C
                                                                                  (R1309, 1409, 1509, 1609, 1709, 1809, 1909, 2009, 2109)
s 1-249-401-11 RES, CARBON 47 5% 1/4W
              8-729-306-92
                                TRANSISTOR 2SD669A
01801
              8-729-364-92
                                TRANSISTOR 2SB649-C
01802
              8-729-306-92 TRANSISTOR 2SD669A
Q1901
                                                                                  R1310 to R2110 (x9)
                                                                                  (R1310, 1410, 1510, 1610, 1710, 1810, 1910, 2010, 2110)

s 1-249-401-11 RES, CARBON 47 5% 1/4W
01902
              8-729-364-92 TRANSISTOR 2SB649-C
8-729-306-92 TRANSISTOR 2SD669A
02001
Q2002
              8-729-364-92 TRANSISTOR 2SB649-C
              8-729-306-92 TRANSISTOR 2SD669A
                                                                                  R1311 to R2111 (x9)
02101
                                                                                  (R1311, 1411, 1511, 1611, 1711, 1811, 1911, 2011, 2111)

s 1-249-419-11 RES, CARBON 1.5K 5% 1/4W
              8-729-364-92 TRANSISTOR 2SB649-C
02102
R18
                                RES, CARBON 27K 5% 1/4W
              1-249-434-11
              1-249-413-11 RES, CARBON 470 5% 1/4W
1-249-417-11 RES, CARBON 1K 5% 1/4W
                                                                                 R1312 to R2112 (x9)
(R1312, 1412, 1512, 1612, 1712, 1812, 1912, 2012, 2112)
s 1-249-429-11 RES, CARBON 10K 5% 1/4W
R19
         8
R20
R21
              1-249-423-11 RES, CARBON 3.3K 5% 1/4W
R22
              1-249-429-11 RES, CARBON 10K 5% 1/4W
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NOTE: please see pages D-21 for the part numbers of capacitors and resistors that are not listed in the parts list.

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Ref.
                                                                     Ref.
       SP Parts No.
                         Description
                                                                             SP Parts No.
No.
                                                                     No.
                                                                                                Description
R1313 to R2113 (x9)
(R1313, 1413, 1513, 1613, 1713, 1813, 1913, 2013, 2113)
s 1-249-429-11 RES, CARBON 10K 5% 1/4W
                                                                             o A-7850-479-A MOUNTED PCB, SE-53
                                                                     (This assembly includes the following parts.)
R1314 to R2114 (x9)
                                                                                 1-161-485-00 CAP, CERAMIC 0.1
                                                                                                                       50V
                                                                     C2
                                                                             8
(R1314, 1414, 1514, 1614, 1714, 1814, 1914, 2014, 2114)
s 1-249-390-11 RES, CARBON 5.6 5% 1/4W
                                                                                 1-161-485-00
                                                                     C3
                                                                                                CAP, CERAMIC 0.1
                                                                     C4
                                                                                 1-124-247-00
                                                                                                CAP, ELECT 10
                                                                                                                   20% 35V
                                                                     C5
                                                                                 1-124-247-00
                                                                                                CAP, ELECT
                                                                                                              10
                                                                                                                   20% 35V
R1315 to R2115 (x9)
                                                                                                CAP, CERAMIC 0.1
                                                                     C6
                                                                                 1-161-485-00
                                                                                                                        50V
(R1315, 1415, 1515, 1615, 1715, 1815, 1915, 2015, 2115)
       s 1-249-390-11 RES, CARBON 5.6 5% 1/4W
                                                                                                CAP, CERAMIC 0.1
                                                                     C7
                                                                                                                        50v
                                                                                 1-161-485-00
                                                                     C8
                                                                                 1-161-485-00
                                                                                                CAP, CERAMIC 0.1
                                                                                                                       50V
            1-231-549-11 BLOCK, RESISTOR 47Kx4
                                                                                                                    5% 50V
RB 1
                                                                     CQ
                                                                                 1-102-973-00
                                                                                                CAP, CERAMIC 100P
to 4
                                                                     C10
                                                                                                CAP. CERAMIC 100P
                                                                                                                    5% 50V
                                                                                 1-102-973-00
RB5
            1-235-005-00 RESISTOR BLOCK 47K
            1-231-549-11 BLOCK, RESISTOR 47Kx4
                                                                     CN446
                                                                                 1-560-367-00 CONNECTOR POST HEADER,
RB6
                                                                                                  ILG (5P)
                          RELAY, MICRO.REED
RELAY, MICRO.REED
RELAY, MICRO.REED
RT.1
            1-515-657-11
            1-515-657-11
                                                                     D1
                                                                                 8-719-904-21 DIODE HZ12A1
RL2
            1-515-657-11
RL3
            1-515-657-11 RELAY, MICRO.REED
                                                                     DME1
                                                                                 8-745-211-00 DME DM211
                                                                                 8-759-103-93
                                                                                                IC UPC393C
RV1001 s
            1-230-840-11
                          RES, ADJ, METAL 1K
                                                                     ICI
            1-230-841-11
                                                                                 8-759-990-82
                                                                                                IC TLO82CP
                          RES, ADJ, METAL
                                            2K
                                                                     IC2
RV1002 s
            1-230-841-11
                          RES, ADJ, METAL
                                            2 K
RV1003 s
RV1101 s
            1-230-840-11
                          RES, ADJ, METAL
                                            1 K
                                                                     R1
                                                                                 1-215-457-00
                                                                                                RES, METAL
                                                                                                             33K 1% 1/6W
100K 1% 1/6W
                                                                                 1-215-469-00
                                                                                                RES, METAL
RV1102 s
            1-230-841-11 RES, ADJ, METAL
                                            2K
                                                                     R3
                                                                                                             12K 1% 1/6W
33K 1% 1/6W
                                                                     R4
                                                                                 1-215-447-00
                                                                                                RES, METAL
RV1103 s
            1-230-841-11
                          RES, ADJ, METAL
                                             2K
                                                                     R6
                                                                                 1-215-457-00
                                                                                                RES, METAL
RV1201 s
            1-230-840-11
                          RES, ADJ, METAL
                                            1 K
                                                                     R7
                                                                                 1-215-469-00
                                                                                                RES, METAL
                                                                                                              100K 1% 1/6W
RV1202 s
            1-230-841-11
                          RES, ADJ, METAL
                                            2K
            1-230-841-11
                          RES, ADJ, METAL
                                                                                                RES, METAL
                                                                                                              2.2K 17 1/6W
                                             2K
                                                                     R8
                                                                                 1-215-429-00
RV1203 s
                                                                                 1-215-429-00
                                                                                                              2.2K 1% 1/6W
            1-230-840-11
                          RES, ADJ, METAL
                                                                                                RES, METAL
RV1301 s
                                                                     R9
                                                                     R10
                                                                                 1-215-457-00
                                                                                                              33K 1% 1/6W
                                                                                                RES, METAL
RV1302 s
            1-237-517-21
                          RES, ADJ, CERMET 5K
                                                                     R11
                                                                                 1-215-429-00
                                                                                                RES, METAL
                                                                                                              2.2K 1% 1/6W
            1-237-517-21
RV1303 s
                          RES, ADJ, CERMET 5K
                                                                     R12
                                                                                 1-215-457-00
                                                                                                RES. METAL
                                                                                                              33K 12 1/6W
                          RES, ADJ, METAL 1K
RV1401 s
            1-230-840-11
                          RES, ADJ, CERMET 5K
            1-237-517-21
                                                                     R13
                                                                                 1-215-457-00
                                                                                                RES, METAL
                                                                                                              33K 1% 1/6W
RV1402 s
                                                                                                             33K 1% 1/6W
2.2K 1% 1/6W
            1-237-517-21
                                                                     R14
                                                                                 1-215-457-00
                                                                                                RES, METAL
                          RES, ADJ, CERMET 5K
                                                                     R15
                                                                             8
                                                                                 1-215-429-00
                                                                                                RES, METAL
            1-230-840-11
                                                                                 1-215-429-00
                                                                                                RES. METAL
                                                                                                              2.2K 1% 1/6W
RV1501 s
                          RES, ADJ, METAL 1K
                                                                     R16
                          RES, ADJ, CERMET 5K
            1-237-517-21
RV1502 s
            1-237-517-21
RV1503 s
                          RES, ADJ, CERMET 5K
            1-230-840-11
                          RES, ADJ, METAL 1K
RV1601 s
RV1602 s
            1-237-517-21
                          RES, ADJ, CERMET 5K
                          RES, ADJ, CERMET 5K
            1-237-517-21
RV1603 s
                          RES, ADJ, METAL 1K
RV1701 s
            1-230-840-11
RV1702 s
            1-237-517-21
                          RES, ADJ, CERMET 5K
RV1703 в
            1-237-517-21
                          RES, ADJ, CERMET 5K
RV1801 a
            1-230-840-11 RES, ADJ, METAL 1K
                                                                     SE-54 BOARD
                                                                             o A-7850-484-A MOUNTED PCB, SE-54
RV1802 s
            1-237-517-21
                          RES, ADJ, CERMET 5K
                                                                     (This assembly includes the following parts.)
RV1803 s
            1-237-517-21
                          RES, ADJ, CERMET 5K
RV1901 s
            1-230-840-11 RES, ADJ, METAL 1K
                                                                     C1
                                                                                 1-124-278-00 CAP, ELECT NONPOLAR
            1-237-517-21
                          RES, ADJ, CERMET 5K
RV1902 s
            1-237-517-21
                          RES, ADJ, CERMET 5K
                                                                                                             10 20% 35V
RV1903 a
                                                                     C2
                                                                                 1-124-278-00 CAP, ELECT NONPOLAR
                                                                                                             10 20% 35V
RV2001 s
            1-230-840-11
                          RES, ADJ, METAL
                                                                                                CAP, CERAMIC 0.1
                                                                                                                      50 V
                                                                     C3
                                                                                 1-161-485-00
            1-237-517-21
1-237-517-21
RV2002 s
                          RES, ADJ, CERMET 5K
                                                                                                CAP, CERAMIC 0.1
CAP, CERAMIC 0.1
                                                                                 1-161-485-00
                                                                                                                      50V
                          RES, ADJ, CERMET 5K
                                                                     C4
RV2003 s
                                                                                 1-161-485-00
                                                                     C5
                                                                                                                      50 V
            1-230-840-11
                          RES, ADJ, METAL 1K
RV2101 s
                          RES, ADJ, CERMET 5K
            1-237-517-21
RV2102 s
                                                                     CN414 o
                                                                                 1-560-366-00 CONNECTOR POST HEADER,
RV2103 s
            1-237-517-21
                          RES, ADJ, CERMET 5K
                                                                                                  ILG (4P)
            1-570-598-11 SWITCH, DIP
1-553-441-00 SWITCH, TOGGLE
SW1
                                                                                 8-719-911-19 DIODE 188119
SW2
                                                                     D2
                                                                                 8-719-910-62 DIODE HZ6A2L
                                                                                 8-719-800-17 DIODE THS102A
                                                                     IC1
                                                                                 8-759-910-83 IC TL072ACP
                                                                     IC2
                                                                     Q1
                                                                                 8-729-201-53 TRANSISTOR 2SA1015-GR
                                                                     RV 1
                                                                                 1-228-459-00 RES, ADJ, METAL 10K
                                                                     RV2
                                                                                 1-228-459-00 RES, ADJ, METAL 10K
```

Ref.				Ref.	an.	Danta Na	D
No.	SP	Parts No.	Description	No.	SP	Parts No.	Description
ann 1	BO45	_		ICH1		8-759-202-32	IC TC74HC163P
SEP-1		_	MOUNTED BOD CED 1	ICH1	8 6	8-759-202-32	IC TC74HC163P
- (m.:.	0		MOUNTED PCB, SEP-1	ICH3	8	8-759-202-74	
(Inis	2886	mply incides	the following parts.)	ICH4	8	8-759-914-39	IC MBM2114A-10LP
	_	0 051 600 11	TEVER DC BOARD	ICH7	8	8-759-920-85	IC CXD1026G
-	8	2-251-622-11	LEVER, PC BOARD	LUII/	•	0-755-520-05	10 0/10/200
-00	_	1 102 222_00	CAR PIECT 100 207 250	ICH8	8	8-759-914-39	IC MBM2114A-10LP
C9	8	1-123-333-00	CAP, ELECT 100 20% 25V	ICH11	8	8-759-920-85	IC CXD1026G
D1	8	8-719-812-44	DIONE TIO124	10111		0 /3/ /20 03	10 0110100
to 8		0-/19-012-44	DIODE ILOI24	ICJ1	8	8-759-202-32	IC TC74HC163P
10 0				ICJ2	8	8-759-202-32	
IC1	8	8-759-202-21	IC TC74HC32P	ICJ3	8	8-759-202-26	IC TC74HC138P
101	-	0-733-202-21	10 1074110521	ICJ4	8	8-759-914-39	
ICA1	8	8-759-202-74	IC TC74HC04P	ICJ7	8	8-759-920-85	IC CXD1026G
ICA2	8	8-759-202-74					
ICA4	8		IC TC74HC374P	ICJ8	8	8-759-914-39	IC MBM2114A-10LP
ICA5	8		IC TC74HC374P	ICJ11	8	8-759-920-85	IC CXD1026G
ICA6	8	8-759-202-27					
				ICK1	8	8-759-202-11	IC TC74HC00P
ICA7	8	8-759-202-32	IC TC74HC163P	ICK2	8	8-759-202-11	IC TC74HC00P
ICA8	8		IC TC74HC10P	ICK3	8	8-759-202-26	IC TC74HC138P
ICA9	8	8-759-202-11		ICL1	8	8-759-202-32	IC TC74HC163P
ICA10	8	8-759-202-74	IC TC74HC04P	ICL2	8	8-759-202-32	IC TC74HC163P
ICA11	8	8-759-000-99	IC MC74HC74N				
				ICL3	8	8-759-202-74	IC TC74HC04P
ICB1	8	8-759-202-27	IC TC74HC157P	ICL4	8	8-759-914-39	
ICB2	8	8-759-202-27	IC TC74HC157P	ICL7	8	<b>8-</b> 759-920-85	IC CXD1026G
ICB4	8	8-759-914-39	IC MBM2114A-10LP	ICL8	8	<b>8-</b> 75 <b>9</b> -914-39	IC MBM2114A-10LP
ICB5	8		IC MBM2114A-10LP	ICL11	8	8-759-920-85	IC CXD1026G
ICB6	8	8-759-202-27	IC TC74HC157P				
				ICM1	8	8-759-202-32	IC TC74HC163P
ICB7	8		IC TC74HC163P	ICM2	8	8-759-202-32	IC TC74HC163P
ICB8	8	8-759-202-18	IC TC74HC2OP	ICM3	8	8-759-202-86	IC TC74HC123P
ICB9	8		IC TC74HC32P	ICM4	8	8-759-914-39	IC MBM2114A-10LP
ICB10			IC TC74HC163P	ICM7	8	8-759-920-85	IC CXD1026G
ICB11	8	8-759-202-89	IC TC74HC139P				
		<b></b>		ICM8	8	8-759-914-39	IC MBM2114A-10LP
ICC1	8		IC SN74HC379N	ICM11	8	8-759-920-85	IC CXD1026G
ICC2	8		IC SN74HC379N			0 750 000 00	70 m07/m0100m
ICC3	8		IC MCM6147AP-55	ICN1	8	8-759-202-86	IC TC74HC123P
ICC4	8	8-759-914-39		ICN2	8	8-759-202-86	IC TC74HC123P
ICC5	8	8-759-914-39	IC MBM2114A-10LP	ICN3	8	8-759-202-86	IC TC74HC123P
T006	_	0 750 000 07	TO MOTANO157D	ICN4	8	8-759-202-26	IC TC74HC164N
ICC6 ICC7	8	8-759-202-27		ICN5	8	8-759-202-27	IC TC74HC157P
ICC8	8		IC TC74HC163P IC TC74HC08P	ICN6		8-759-901-89	IC SN74LS189AN
ICC9	8 8	8-759-202-21		ICNO	8	8-759-001-39	IC MC74HC164N
ICC10	8	8-759-202-21	IC TC74HC32P	ICN8	8	8-759-202-24	IC TC74HC86P
ICC11	8	8-759-202-74		ICN9	8	8-759-926-31	IC AM26LS31PC
	٠	0 , 3 , 20	20 207 1800 12	ICN10		8-759-202-74	IC TC74HC04P
ICD1	8	8-759-203-36	IC TC74HC374P	ICN11		8-759-202-78	IC TC74HC51P
ICD2	8	8-759-203-36	IC TC74HC374P				
ICD3	8	8-759-203-24	IC TC74HC283P	RB1	8	1-231-450-00	BLOCK, RESISTOR 3.3Kx8
ICD4	8	8-759-001-33	IC MC74HC158N	RB2	8	1-235-005-00	RESISTOR BLOCK 47K
ICD5	8		IC SN74LS189AN	RB3	8	1-235-005-00	RESISTOR BLOCK 47K
-	_			RB4	8	1-235-005-00	RESISTOR BLOCK 47K
ICD6	8	8-759-203-36	IC TC74HC374P				
ICD7	8	8-759-001-42	IC MC74HC174N	SW1	8	1-553-441-00	SWITCH, TOGGLE
ICD8	8	8-759-202-32	IC TC74HC163P				
ICD9	8	8-759-000-99	IC MC74HC74N				
ICD10	8	8-759-203-01	IC TC74HC175P				
ICD11	8	8-759-000-99	IC MC74HC74N				
ICE1	8	8-759-202-24					
ICE2	8	8-759-202-24	IC TC74HC86P				
ICE3	8	8-759-203-17	IC TC74HC251P				
ICE4	8	8-759-202-82	IC TC74HC85P				
ICE5	8	8-759-776-81	IC MB7114L-SEP-E5				
100/		0.750.001.00	TO 0N74101904N	TPC-1			COMPTERE DAY MAG 1
ICE6	8	8-759-901-89	IC SN74LS189AN	- (m: :	0		COMPLETE PCB, TPC-1
ICE7	8	8-759-203-17	IC TC74HC251P	(This	4886	mora includes	the following parts.)
ICE11	8	8-759-202-26	IC TC74HC138P	C1	_	1_161_40= 00	CAP. CERAMIC 0.1 50V
ICF1	_	0750-000 11	ፕሮ <b>ተ</b> ሮ7 <b>ሉ</b> ዛሮስበው	C1	8	1-101-480-00	CAP, CERAMIC 0.1 50V
ICF1	8	8-759-202-11	IC TC74HC00P IC TC74HC00P	to 4			
ICF2	8	8-759-202-11 8-759-202-26	IC TC74HC138P	C5		1-104-077-00	CAP, STYROL 0.001 5% 50V
701.3	8	3-173-202-20	10 10/7H01301	C6	8 8	1-161-485-00	CAP, CERAMIC 0.1 50V
				C7	8	1-102-816-00	CAP, CERAMIC 120P 5% 50V
				C8	8	1-136-153-00	CAP, METAL 0.01 5% 50V
				to 1		00	

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Ref.
                                                                          SP Parts No.
                                                                                             Description
No.
       SP
          Parts No.
                          Description
                                                                   No.
                          CAP, ELECT 330 20% 25V CAP, ELECT 330 20% 25V
                         CAP, ELECT
                                                                   ICB6
                                                                              8-759-906-79
                                                                                            IC AD7574JN
C12
            1-124-479-11
                                                                   ICB7
                                                                              8-759-202-24
                                                                                            IC TC74HC86P
            1-124-479-11
C13
                                                                                             IC TC74HC14P
                                                                              8-759-202-17
C14
            1-161-485-00
                          CAP, CERAMIC 0.1
                                                  50V
                                                                   ICB8
 to 26
                                                                   ICC1
                                                                              8-759-990-84
                                                                                            IC TLO84CN
            1-124-471-00 CAP, ELECT 1000 20% 6.3V
                                                                              8-759-990-84
                                                                                            IC TL084CN
                                                                   ICC5
C27
            1-161-485-00 CAP, CERAMIC 0.1
                                                  50V
C28
                                                                              8-729-207-36 TRANSISTOR 2SJ105-GR
to 46
                                                                   01
                                                                    to 9
                                             20%
                                                  50V
            1-124-910-11 CAP, ELECT
C47
            1-124-917-11
                                                                   Q10
                                                                              8-729-201-53 TRANSISTOR 2SA1015-GR
C48
                          CAP, ELECT
                                       33
                                             20%
                                                  63V
       8
C49
            1-124-446-11
                          CAP, ELECT
                                       47
                                             20%
                                                  107
                                                                   Q11
                                                                              8-729-205-88
                                                                                            TRANSISTOR 2SC3074-Y
       8
                                                                    to 18
            1-124-446-11
                          CAP, ELECT
                                       47
                                             20%
                                                  10V
C50
                          CAP, CERAMIC 0.1
                                                  50 V
C51
            1-161-485-00
                                                                              8-729-206-12 TRANSISTOR 2SA1244-Y
                          CAP, CERAMIC 0.1
                                                  507
                                                                   Q19
            1-161-485-00
C52
                                                                                             TRANSISTOR 2SC1815-GR
                                                                   Q20
                                                                              8-729-281-53
                          CONNECTOR POST HEADER,
CN402 o
            1-560-357-00
                                                                                             RES, CARBON 330K 5% 1/4W
                            ILG (3P)
                                                                   R7
                                                                          я
                                                                              1-247-891-00
                                                                                             RES, CARBON 5.6K 5% 1/4W
                                                                              1-247-849-00
                          CONNECTOR POST HEADER.
                                                                   R44
CN403 o
            1-560-357-00
                                                                                             RES, CARBON 5.6K 5% 1/4W
                                                                              1-247-849-00
                                                                   R60
                            ILG (3P)
                          CONNECTOR POST HEADER,
                                                                              1-247-753-11
                                                                                             RES, CARBON 1.2K 5% 1/2W
            1-560-357-00
                                                                   R63
CN404 o
                            ILG (3P)
                                                                   R64
                                                                              1-249-447-11
                                                                                             RES, CARBON 1
                                                                                                              5% 1/4W
                                                                    to 67
CN405 o
            1-560-358-00
                          CONNECTOR POST HEADER.
                            TLG (4P)
                          CONNECTOR POST HEADER,
                                                                   R70
                                                                              1-215-452-00 RES, METAL 20K 17 1/6W
CN406 o
            1-560-357-00
                            ILG (3P)
                                                                                             RESISTOR BLOCK 47K
                                                                              1-235-005-00
                                                                   RB 1
                                                                                             RESISTOR BLOCK 47K
                          CONNECTOR POST HEADER,
                                                                              1-235-005-00
            1-560-359-00
                                                                   RB2
CN407 o
                                                                          8
                             ILG (5P)
                                                                   RB3
                                                                               1-235-005-00
                                                                                             RESISTOR BLOCK 47K
            1-560-357-00
                          CONNECTOR POST HEADER,
                                                                   RB4
                                                                              1-231-450-00
                                                                                             BLOCK, RESISTOR 3.3Kx8
CN408 o
                             ILG (3P)
                                                                   RV 1
                                                                                             RES, ADJ, METAL 10K
                          CONNECTOR POST HEADER.
                                                                               1-230-843-11
CN409 o
            1-560-361-00
                                                                                             RES, ADJ, METAL 500
                            ILG (8P)
                                                                               1-230-839-11
                                                                   RV2
                                                                          8
                          CONNECTOR POST HEADER,
                                                                               1-230-842-11
                                                                                             RES, ADJ, METAL 5K
            1-560-359-00
                                                                   RV3
CN410 o
                            ILG (5P)
                                                                   RV4
                                                                              1-230-842-11
                                                                                             RES, ADJ, METAL 5K
CN411 o
            1-560-359-00
                          CONNECTOR POST HEADER,
                                                                   RV5
                                                                              1-230-842-11 RES, ADJ, METAL 5K
                             ILG (5P)
                          CONNECTOR POST HEADER,
            1-560-357-00
CN412 o
                             ILG (3P)
                          CONNECTOR POST HEADER.
CN413 o
            1-560-357-00
                             ILG (3P)
            1-560-360-00
                          CONNECTOR POST HEADER,
CN906 o
                             ILG (6P)
            8-719-911-19 DIODE 1SS119
  to 10
                                                                   VR-56 BOARD
                                                                          o 1-620-326-11 PC BOARD, VR-56
            8-719-200-02 DIODE 10E-2
                                                                              1-560-365-00 CONNECTOR POST HEADER,
  to 18
                                                                   CN432 o
                                                                                               ILG (3P)
            8-719-911-19
                         DIODE 1SS119
D19
                                                                              1-230-739-21 RES, VAR, CARBON 1K
            8-719-910-61
                          DIODE HZ6A1L
 D20
                                                                   RV1
 D21
            8-719-200-02
                          DIODE 10E-2
                          DIODE RP18E-B2
 D22
            8-719-100-77
            8-759-990-84
                          IC TLO84CN
 TCI
            8-759-930-80
                           IC CA3080E
 IC2
            8-759-981-00
                           IC TLO81CP
 IC3
            8-759-981-00
                           IC TLOSICP
 IC4
            8-759-990-84
                           IC TLOS4CN
 IC5
            8-759-922-23
                          IC PCM53JP-V
 TC6
        8
            8-759-202-56
                           IC TC74HC245P
 ICA1
            8-759-001-42
                           IC MC74HC174N
 ICA2
            8-759-203-21
                           TC TC74HC273P
 ICA3
            8-759-203-21
                           IC TC74HC273P
 ICA4
            8-759-203-21
                           IC TC74HC273P
 ICA5
            8-759-203-30
                          IC TC74HC365F
 ICA6
            8-759-000-99
                           TC MC74HC74N
 ICA7
            8-759-000-99
                           IC MC74HC74N
 ICA8
            8-759-203-30
                          IC TC74HC365P
 ICB1
            8-759-202-26
                           IC TC74HC138P
 ICB2
            8-759-202-86
                          IC TC74HC123P
 ICB3
            8-759-202-74
                          TC TC74HC04P
 ICB4
            8-759-001-42 IC MC74HC174N
 ICB5
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Ref.

## RAME

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Ref.
Ref.No.
                                                                                         No. SP Parts No.
                                                                                                                      Description
No. SP Parts No.
                             Description
                                                                                         SHIFTER ASSY
FRAME
                                                                                                   1-454-448-11 SOLENOID, SHIFTER PLUNGER
MAIN ASSY
                                                                                              o 1-938-899-11 HARNESS (EOT)
     8 1-413-183-13 SWITCHING REGULATOR
                                                                                         (This part includes the following parts.)
                                                                                                    1-560-372-00 TERMINAL, SOLDERLESS
1-561-516-00 CONNECTOR HOUSING, ILG (4P)
                              TAB, FASTEN
TAB, FASTEN
          1-535-420-00
     0
                                                                                              0
           1-535-421-00
     ٥
                                                                                                    8-719-802-00 DIODE TLN109
           1-541-409-31
                              MOTOR, FAN
                                                                                               8
                              CABLE ASSY, D.PB HEAD FLAT
CABLE ASSY, CPU FLAT
                                                                                                    8-729-206-03 TRANSISTOR TPS603
           1-559-221-11
           1-559-222-11
                               CABLE ASSY, IF FLAT (2)
      0
                              CABLE ASSY, DET FLAT
CABLE ASSY, PRE FLAT
CABLE ASSY, TPC FLAT
CABLE ASSY, IF FLAT (1)
                                                                                         MOTOR ASSY, S REEL
           1-559-224-11
                                                                                         - s 1-454-426-61 SOLENOID, PLUNGER
           1-559-225-11
           1-559-226-11
           1-559-227-11
      0
                               CABLE ASSY, SYNC REC FLAT
CABLE ASSY, AD REC FLAT
CABLE ASSY, IF FLAT (3)
                                                                                         MOTOR ASSY, T REEL
           1-559-228-11
                                                                                            s 1-454-426-51 SOLENOID, PLUNGER
           1-559-229-11
           1-559-230-11
           1-938-905-11
                               HARNESS (ARP HEAD)
      0
           1-560-767-00
                               CONTACT, CONNECTOR
                                                                                         MOTOR ASSY, CAPSTAN
                                                                                                  1-560-372-00 TERMINAL, SOLDERLESS
1-561-156-00 CONNECTOR, EI HOUSING
1-561-516-00 CONNECTOR HOUSING, ILG (4P)
                               HOUSING, CONNECTOR 20P
HOUSING, CONNECTOR 26P
HARNESS (MOTOR CONTROL)
           1-561-890-00
      ٥
            1-561-891-00
                                                                                               0
            1-938-906-11
                                                                                               ٥
                               TERMINAL, SOLDERLESS
                                                                                                    1-938-901-11 HARNESS (CAPSTAN)
            1-560-372-00
                               CONNECTOR HOUSING, ILG (8P)
            1-561-519-00
            1-938-907-11
                               HARNESS (DR)
      О
                               TERMINAL, SOLDERLESS
CONNECTOR HOUSING, ILG (2P)
CONNECTOR HOUSING, ILG (3P)
                                                                                         PINCH ASSY
            1-560-372-00
                                                                                                  1-454-449-12 SOLENOID, PRE PLUNGER
1-454-450-11 SOLENOID, PINCH PLUNGER
            1-561-514-00
            1-561-515-00
            1-561-518-00
                               CONNECTOR HOUSING, ILG (6P)
      0
                               HARNESS (R.TACH)
            1-938-908-11
                               TERMINAL, SOLDERLESS
                                                                                         MONITOR ASSY
            1-560-372-00
      o
                                                                                              s 1-237-672-11 RES, VAR, CARBON 500
                               CONNECTOR HOUSING, ILG (5P)
            1-561-517-00
                                                                                                    1-553-244-00 SWITCH, TOGGLE
1-553-249-00 SWITCH, TOGGLE
            1-938-909-11
                               HARNESS (L. TACH)
            1-560-372-00
                               TERMINAL, SOLDERLESS
                                                                                                    1-559-219-11 CABLE ASSY, METER FLAT (2)
1-559-220-11 CABLE ASSY, METER FLAT (1)
                               CONNECTOR HOUSING, ILG (5P)
            1-561-517-00
                               HARNESS (T.TACH)
TERMINAL, SOLDERLESS
CONNECTOR HOUSING, ILG (5P)
            1-938-910-11
                                                                                                                       SWITCH, ROTARY
HARNESS (DIGITAL CONTROL)
            1-560-372-00
1-561-517-00
                                                                                                    1-570-297-11
                                                                                               8
                                                                                                    1-938-894-11
      o
                                                                                                    1-560-372-00 TERMINAL, SOLDERLESS
1-938-895-11 HARNESS (MONITOR POWER)
1-938-902-11 HARNESS (METER.HEADPHONE)
                               HARNESS (TENSION)
            1-938-911-11
                              TERMINAL, SOLDERLESS
CONNECTOR HOUSING, ILG (4P)
            1-560-372-00
            1-561-516-00
                                                                                                    1-560-372-00 TERMINAL, SOLDERLESS
1-560-767-00 CONTACT, CONNECTOR
1-561-519-00 CONNECTOR HOUSING, ILG (8P)
                               HARNESS (SHUTTLE)
            1-938-912-11
       0
                              TERMINAL, SOLDERLESS
CONNECTOR HOUSING, (3P)
             1-560-372-00
       o
             1-561-515-00
                                                                                                     1-561-889-00 HOUSING, CONNECTOR 16P
1-938-903-11 HARNESS (MA-24)
                                                                                               ٥
             1-938-913-11 HARNESS (MOTHER POWER)
            1-561-067-00 CONTACT, SOCKET
1-561-070-00 HOUSING, PLUG
       0
                                                                                                    1-560-372-00 TERMINAL, SOLDERLESS
1-561-519-00 CONNECTOR HOUSING, ILG (8P)
1-938-904-11 HARNESS (METER CONTROL)
       0
             1-561-828-00
                                HOUSING, PLUG 3P
       0
             1-566-179-11 PLUG, CONNECTOR 15P
                                                                                               0
                                                                                                                       TERMINAL, SOLDERLESS
                                                                                                     1-560-372-00
                                                                                                     1-561-521-00 CONNECTOR HOUSING, ILG (12P)
             1-938-914-11 HARNESS (IF.TPC POWER)
       0
            1-560-372-00 TERMINAL, SOLDERLESS
1-561-516-00 CONNECTOR HOUSING, ILG (4P)
1-561-518-00 CONNECTOR HOUSING, ILG (6P)
       0
                                                                                                     1-530-291-00 SPEAKER
                                                                                               8
       0
                                                                                                                       HARNESS (SPEAKER)
             1-561-518-00
                                                                                                     1-938-896-11
                                                                                               0
             1-566-179-21 PLUG, CONNECTOR 15P
                                                                                                                       TERMINAL, SOLDERLESS
                                                                                                     1-560-372-00
                                                                                                     1-561-515-00 CONNECTOR HOUSING, ILG (3P)
            1-938-915-11 HARNESS (IF.DR POWER)
1-560-372-00 TERMINAL, SOLDERLESS
1-561-067-00 CONTACT, SOCKET
1-561-071-00 HOUSING, PLUG
       0
             1-561-517-00 CONNECTOR HOUSING, ILG (5P)
       0
```

1-566-178-21 PLUG, CONNECTOR 12P

```
Ref.
No. SP Parts No. Description

PANEL ASSY, CONNECTOR
- s 1-161-742-00 CAP, CERAMIC 2200P 20% 400V
- s 1-509-176-51 CONNECTOR (RECEPTACLE) 3P
- s 1-561-781-21 CONNECTOR (RECEPTACLE) 3P
- o 1-938-898-11 HARNESS (TC)

- o 1-938-916-11 HARNESS (DDA)
- o 1-560-767-00 CONTACT, CONNECTOR 16P
- o 1-938-917-11 HARNESS (LA I/O)

- o 1-560-767-00 CONTACT, CONNECTOR
- o 1-561-891-00 HOUSING, CONNECTOR
- o 1-561-891-00 HOUSING, CONNECTOR
- o 1-938-918-11 HARNESS (DIGITAL I/O)
- o 1-560-767-00 CONTACT, CONNECTOR
- o 1-561-891-00 HOUSING, CONNECTOR 26P
- o 1-560-767-00 CONTACT, CONNECTOR
- o 1-561-891-00 HOUSING, CONNECTOR
```

## D-4. ACCESSORIES SUPPLIED

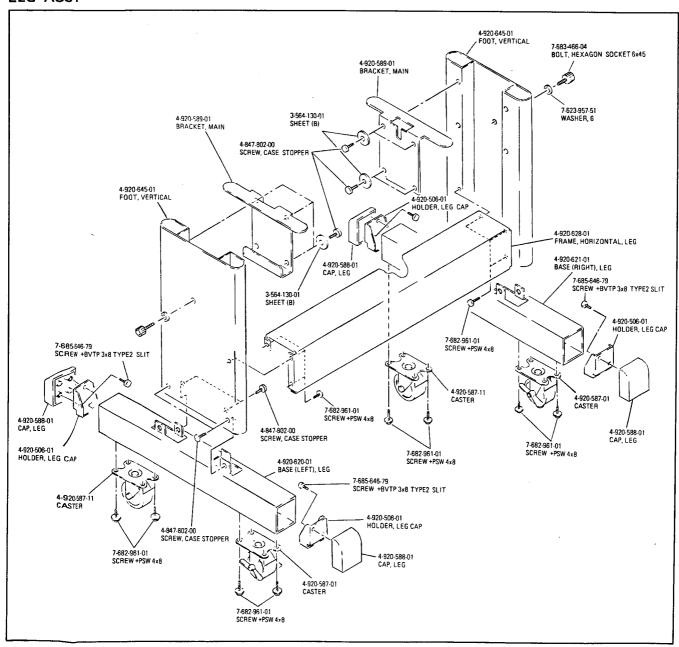
Qty SP Parts No. Description

2pcs s A-7810-280-C CLAMP ASSY

1pc s 1-551-812-00 CORD, POWER (For U)
1pc s 1-556-760-11 CORD, POWER (For EK)
1pc s 1-534-754-00 CORD, POWER (For J)

(LEG ASSY) 3-564-130-01 8pcs 0 SHEET (B) 7-623-957-51 WASHER, 6 2pcs SCREW, CASE STOPPER HOLDER, LEG CAP 16pcs 4-847-802-00 4-920-506-01 4-920-587-01 4pcs 2pcs 0 CASTER 4-920-587-11 2pcs CASTER 4рсв 4-920-588-01 CAP, LEG BRACKET, MAIN BASE (LEFT), LEG BASE (RIGHT), LEG 4-920-589-01 2pcs 0 4-920-620-01 1pc 0 4-920-621-01 1pc 0 FRAME, HORIZONTAL, LEG FOOT, VERTICAL 4-920-628-01 2pcs 4-920-645-01 22 pcs SCREW +PSW4x8 7-682-961-01 7-683-466-04 BOLT, HEXAGON SOCKET 6x45 7-685-646-79 SCREW +BVTP3x8 TYPE2 SLIT 2pcs 8рсв

## LEG ASSY



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